

SCREENING SITE INSPECTION REPORT
FOR
CITY DUMP
MORRISON, ILLINOIS
U.S. EPA ID: ILD980606727

SS ID: NONE TDD: F05-8709-119 PAN: FIL0610SB

APRIL 20, 1990



# ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

recycled paper

SIGNATURE PAGE
FOR
SCREENING SITE INSPECTION REPORT
FOR
CITY DUMP
MORRISON, ILLINOIS
U.S. EPA ID: ILD980606727

SS ID: NONE TDD: F05-8709-119 PAN: FILO610SB

Prepared by: Aun Spander

Karen M. Spangler

FIT Team Leader

Ecology and Environment, Inc.

Reviewed by: Regina Bayer

FIT Unit Manager

Ecology and Environment, Inc.

Approved by: Aunt Manager

FIT Office Manager

FIT Office Manager

Date: 4/20/90

Date: 4/20/90

Ecology and Environment, Inc.

# TABLE OF CONTENTS

Section		Page
1	INTRODUCTION	1-1
2	SITE BACKGROUND	2-1
	2.1 INTRODUCTION	2-1
	2.2 SITE DESCRIPTION	2-1
	2.3 SITE HISTORY	2-1
3	SCREENING SITE INSPECTION PROCEDURES AND FIELD	
	OBSERVATIONS	3–1
	3.1 INTRODUCTION	3-1
	3.2 SITE REPRESENTATIVE INTERVIEW	3-1
	3.3 RECONNAISSANCE INSPECTION	3–1
	3.4 SAMPLING PROCEDURES	3–2
4	ANALYTICAL RESULTS	4-1
	4.1 INTRODUCTION	4-1
	4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-	
	COLLECTED SAMPLES	4-1
5	DISCUSSION OF MIGRATION PATHWAYS	5–1
	5.1 INTRODUCTION	5–1
	5.2 GROUNDWATER	5–1
	5.3 SURFACE WATER	5-3
	5.4 AIR	5–3
	5.5 FIRE AND EXPLOSION	5-4
	5.6 DIRECT CONTACT	5–4
6	BIBLIOGRAPHY	6-1

# Table of Contents (Cont.)

Appendix		Page
A	SITE 4-MILE RADIUS MAP	A-1
В	U.S. EPA FORM 2070-13	B-1
С	FIT SITE PHOTOGRAPHS	C-1
D	U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS	D-1
E	WELL LOGS OF THE AREA OF THE SITE	E-1

# LIST OF FIGURES

Figure		Pag
2-1	Site Location	2-2
3-1	Site Features	3–3
3-2	On-Site Soil Sampling Locations	3-5
3-3	Off-Site Soil Sampling Location	3-6
3-4	Groundwater Sampling Locations	3-8

# LIST OF TABLES

<u>Table</u>		Page
3–1	FIT-Sampled Monitoring Well Data	3-9
3-2	Addresses of Residential Well Sampling Locations	3-11
4-1	Results of Chemical Analysis of FIT-Collected Soil Samples	4-3
4-2	Results of Chemical Analysis of FIT-Collected Monitoring Well Samples	4-6
4-3	Results of Chemical Analysis of FIT-Collected Residential Well Samples	4-9

#### INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the City Dump site under contract number 68-01-7347.

The site was initially brought to U.S. EPA's attention by General Electric Company through a Notification of Hazardous Waste Site form submitted in accordance with section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The 103(c) form, submitted in 1981, indicated that solvents may have been dumped on the ground at the site. The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Gregory W. Dunn of the Illinois Environmental Protection Agency (IEPA). The PA is dated July 6, 1987.

FIT prepared an SSI work plan for the City Dump site under technical directive document (TDD) F05-8709-119, issued on September 14, 1987. The SSI work plan was approved by U.S. EPA on February 24, 1989. The SSI of the City Dump site was conducted on March 14 and 15, 1989, under amended TDD F05-8709-119, issued on February 24, 1989.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of six soil samples, two monitoring well samples, and three residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

#### 2. SITE BACKGROUND

#### 2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation, the site representative interview, and federal, state, and local file information reviewed by FIT.

### 2.2 SITE DESCRIPTION

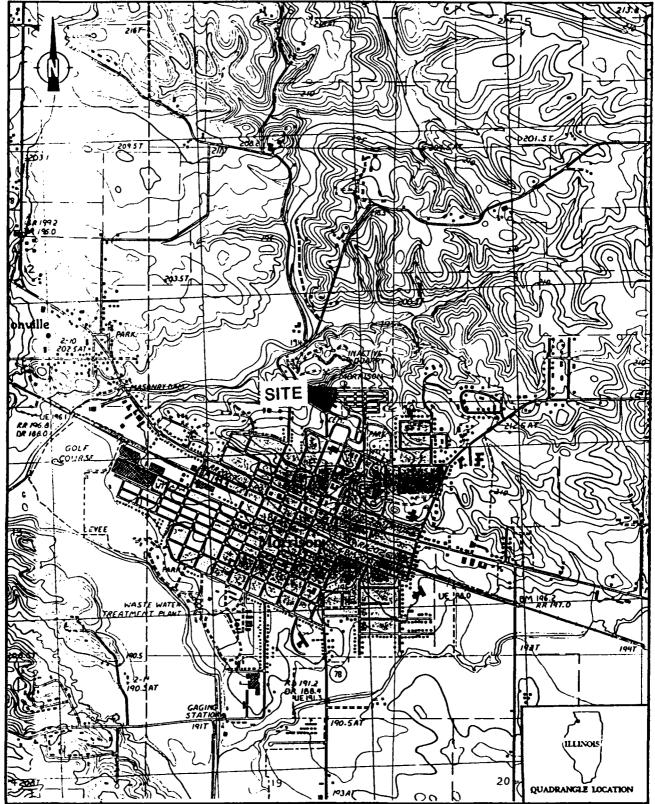
The City Dump site is approximately 3 acres in size, in Whiteside County (NW1/4NE1/4 sec. 18, SW1/4SE1/4 sec. 7, T.21N., R.5E.), on Genessee Avenue, at the north edge of Morrison, Illinois (see Figure 2-1 for site location). The surrounding area is residential and rural. A 4-mile radius map of the City Dump site is provided in Appendix A.

The City Dump site is currently a baseball field known as Presto Park. An abandoned quarry and a cemetery are located adjacent to the site.

#### 2.3 SITE HISTORY

The site property is currently owned by the City of Morrison, which has owned the land for at least 40 years. The years in which dumping occurred on-site are unknown, but city officials believe that the dumping occurred prior to 1950. City officials also believe that the baseball field has been located on-site since the late 1950s (Tapson 1989). General Electric Company (GE) has indicated that on-site disposal may have occurred from 1949 to 1959 (U.S. EPA 1981).

The site was allegedly used as a landfill for disposal of household waste and possibly industrial waste (John Mathes and Associates, Inc.



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Morrison, IL Quadrangle, 7.5 Minute Series, 1985.

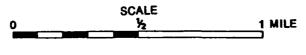


FIGURE 2-1 SITE LOCATION

[JM&A] 1987). A Notification of Hazardous Waste Site form 103(c) filed by GE in 1981 indicated solvents may have been dumped out of barrels onto the ground on-site (U.S. EPA 1981). City officials believe the site was originally intended to be part of the nearby cemetery but was unusable; thus, fill material was accepted to transform the site into usable property (Tapson 1989). It is not known whether the landfill or dump area was ever covered or capped.

In 1986, as a result of routine testing by IEPA under the Ground-water Protection Act, trichloroethene (TCE) contamination was discovered in several municipal wells (Well #1 435  $\mu$ g/L TCE; Well #3 11  $\mu$ g/L TCE). As a result, use of these two wells to provide drinking water was discontinued by the city of Morrison (Tapson 1989).

In 1987, a remedial investigation of the Morrison area was conducted by JM&A for IEPA (Tapson 1989). The purpose of this investigation was to determine the nature and extent of TCE contamination, as well as to identify potential sources of TCE. As a part of this investigation, a soil gas survey of the Morrison area was conducted from May 5 to 8, 1987. Two soil gas samples were collected at the City Dump site; however, these samples showed no signs of contamination. In addition, three monitoring wells were installed in the area of the site as a part of this remedial investigation (JM&A 1987).

### SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

#### 3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the City Dump site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the exception that three fewer residential well samples were collected due to an unavailability of private residential wells in the area of the site. The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the City Dump site is provided in Appendix B.

#### 3.2 SITE REPRESENTATIVE INTERVIEW

Karen Spangler, FIT team leader, conducted an interview with the following Morrison city officials: Sam Tapson, City Administrator; and George Piersol, Mayor. The interview was conducted on March 13, 1989, at 2:45 p.m. at Morrison City Hall. Ted Nehrkorn of FIT was also in attendance. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

#### 3.3 RECONNAISSANCE INSPECTION

On March 14, 1989, FIT conducted a reconnaissance inspection of the City Dump site in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection was begun at 9:10 a.m. The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for

on-site activities and to make observations to aid in characterizing the site. FIT also selected exact sampling locations during the reconnais-sance inspection. FIT was not accompanied by site representatives during the inspection.

Reconnaissance Inspection Observations. The City Dump site is currently known as Presto Park. The site is a baseball field located on the northern side of the city of Morrison. The surrounding area is primarily residential and rural.

Although the site is surrounded by a fence, there is a break in each of the four sides of the ballpark fencing (see Figure 3-1 for site features). Bleachers are located at the southern end of the baseball diamond. Two dugouts are also located at the southeastern and southwestern edges of the baseball field.

The site is bordered to the southwest by Genessee Avenue. Open grassy fields containing scattered trees are located across Genessee Avenue from the site and adjacent to the site on the west.

An abandoned quarry lies directly to the north of the site. Approximately 15 feet of level terrain lies between the edge of the ballpark fence and the edge of the quarried area. Near the northeastern corner of the site, a low-lying drainage ditch/gully was observed leading into the quarry area. Refuse, such as tires and appliances, was observed on the northern slope of the quarry area.

The site is bordered to the northeast and east by a cemetery. Two city-owned buildings are also in this area. A salt shed is located adjacent to the site to the east, and a city garage is located approximately 500 feet east of the salt shed. Photographs of the City Dump site are provided in Appendix C.

## 3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine levels of U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On March 14, 1989, FIT collected two monitoring well samples from the area of the site. On March 15, 1989, FIT collected five soil

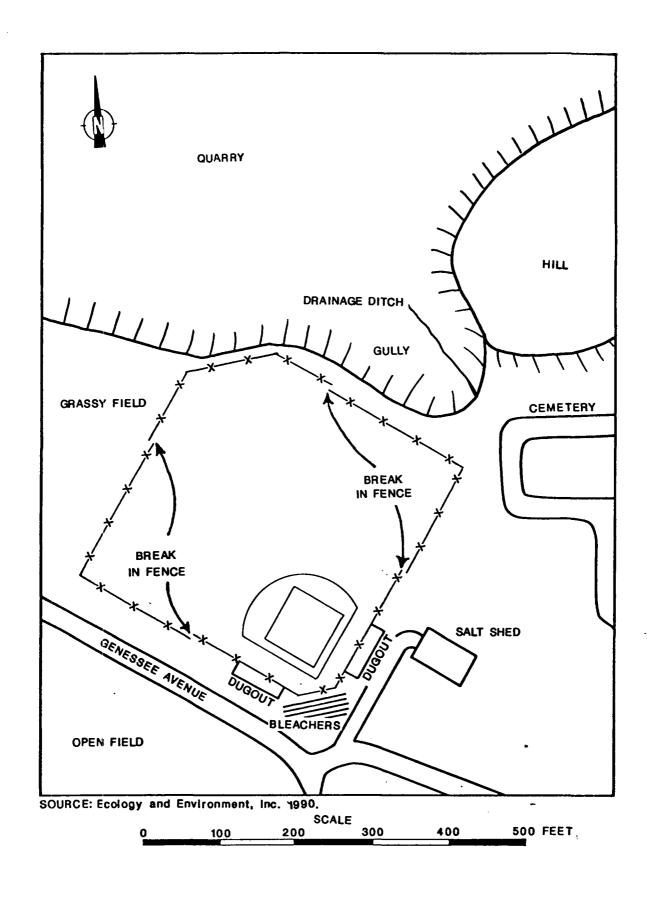


FIGURE 3-1 SITE FEATURES

samples, one potential background soil sample, and three residential well samples from the site and the surrounding area. The site representatives did not accept offered portions of the FIT-collected samples.

Soil Sampling Procedures. Five soil samples (S1 through S5) were collected on-site to determine waste characteristics at the site. Soil samples S1 through S5 were collected in low lying areas where runoff from the site could collect. Soil sample S1 was collected from the slope on the eastern side of the ballpark, at a depth of approximately 4 feet (see Figure 3-2 for on-site soil sampling locations). Soil sample S2 was collected from the southeastern corner of the ballpark at a depth of approximately 3 feet. Soil sample S3 was collected from the perimeter of the ballpark, approximately 10 feet north of the fence near center field, at a depth of approximately 4.5 feet. Soil sample S4 was collected from a sinkhole located on the northern side of the site, at a depth of approximately 4 feet. Surface soil sample S5 was collected from a hole located in the outfield of the ballpark.

A potential background soil sample (S6) was collected to determine the representative chemical content of the soil in the area surrounding the site. Surface soil sample S6 was collected from a wooded area approximately 75 feet south of Genessee Avenue and the site (see Figure 3-3 for off-site soil sampling location). The location was selected because the ground surface appeared to be in an undisturbed state.

Soil samples were collected using a power auger, bucket auger, and garden trowel. Samples were transferred to a stainless steel bowl and thoroughly mixed. Sample material from the bowl was placed in sample bottles using stainless steel spoons (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedure included the scrubbing of all equipment with a solution of Alconox detergent and water, and triple-rinsing the equipment with distilled water prior to the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed under the Contract Laboratory Program (CLP) for TCL compounds by NET Bartlett

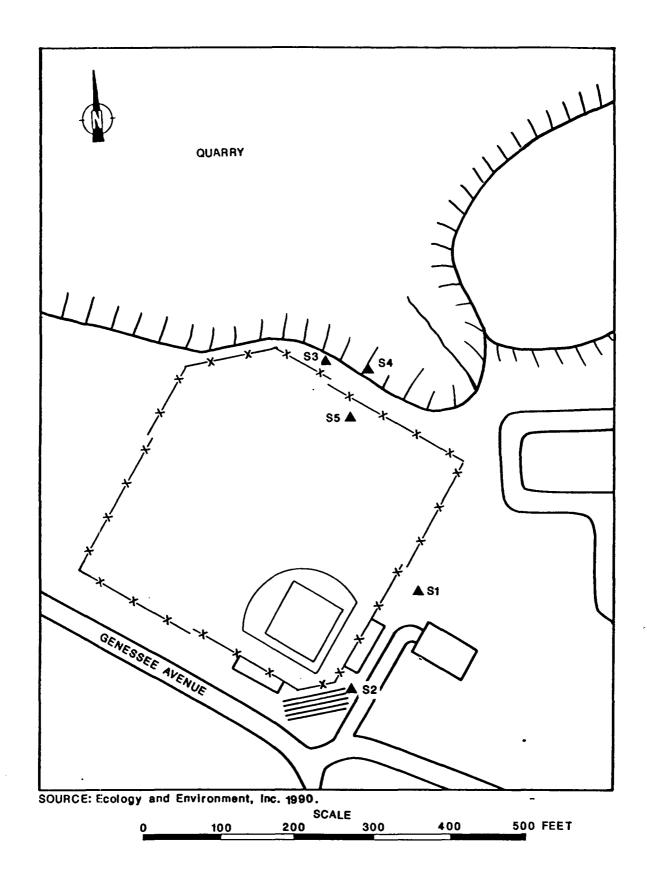
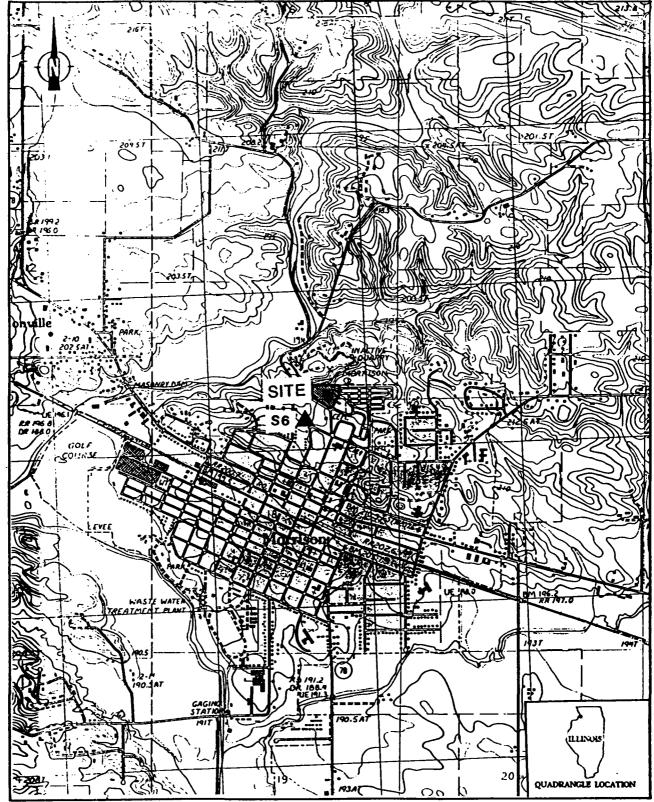


FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Morrison, IL Quadrangle, 7.5 Minute Series, 1985.

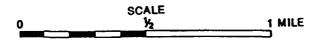


FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

Division of Bartlett, Illinois, and for TAL analytes by Keystone Environmental Resources of Houston, Texas.

Monitoring Well Sampling Procedures. Monitoring well samples (MW1 and MW2) were collected to determine whether TCL compounds and/or TAL analytes had migrated into groundwater in the vicinity of the site.

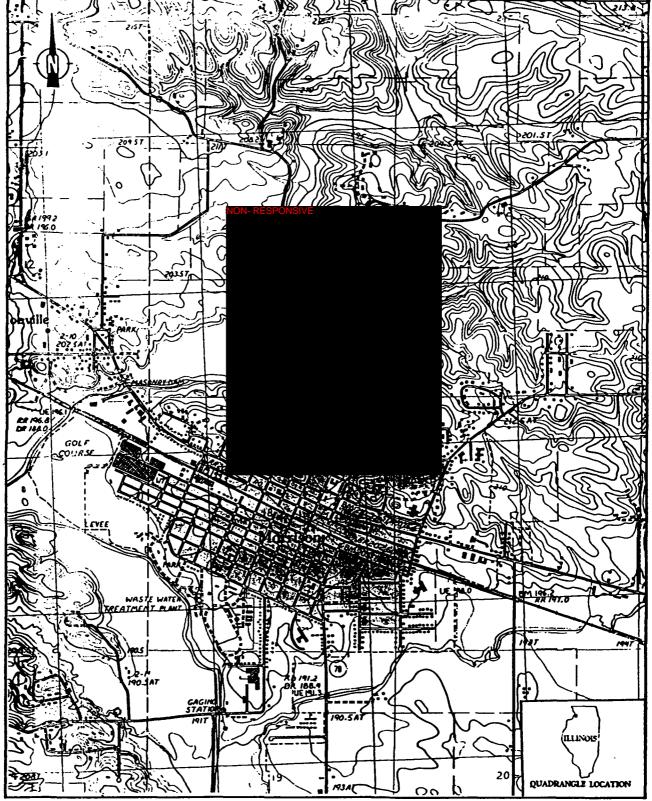
Sample MW1 was obtained from a well labeled G102D by the city of Morrison, located approximately 1/4 mile southeast of the site (see Figure 3-4 for monitoring well sampling locations). During the purging of MW1, FIT observed air blowing out of the well casing. This airflow was sufficient to lift the well cap off the casing. No readings were observed on health and safety instruments during the venting or purging of MW1. Table 3-1 lists well depths, elevations, and water levels for each monitoring well sampled.

Sample MW2 was obtained from a well (G106D) in the quarry north of the site. While an attempt was made to sample a monitoring well (G103S) on the southeastern side of the site, near the city salt shed, this well was dry.

Five times the standing volume of water was purged from both wells prior to sampling. Wells were purged and sampled using stainless steel bailers attached to dedicated nylon rope. This equipment was washed with Alconox and distilled water, and triple-rinsed with distilled water prior to its use (E & E 1987). In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate monitoring well sample was collected at sampling location MW1. A distilled water field blank was also collected in accordance with QA/QC requirements.

All monitoring well samples were packaged and shipped in accordance with U.S. EPA-required protocol. As directed by U.S. EPA, monitoring well samples were analyzed for TCL compounds by U.S. EPA Central Regional Laboratory (CRL) in Chicago, Illinois, and for TAL analytes by Keystone Environmental Resources of Houston, Texas.

Residential Well Sampling Procedures. Residential well samples (RW1 through RW3) were also collected to determine whether TCL compounds and/or TAL analytes had migrated from the site into groundwater.



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Morrison, IL Quadrangle, 7.5 Minute Series, 1985.

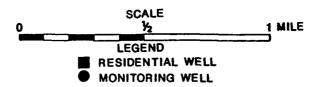


FIGURE 3-4 GROUNDWATER SAMPLING LOCATIONS

Table 3-1
FIT-SAMPLED MONITORING WELL DATA

Sample	Elevation* (feet)	Well Depth** (feet)	Water Level** (feet)
MW1 (G102D)	711.7	85.60	75.75
MW2 (G106D)	632.4	24.60	8.88

<sup>\*</sup> Well elevations obtained from installation details provided by JM&A, 1987.

<sup>\*\*</sup> Well depths and water levels measured from the top of the well casing.

The residential well sampling locations were chosen because of their proximity to the site and the availability of private wells for sampling.

Samples RW1 and RW3 were collected from residences approximately 1/2 mile north of the site (see Figure 3-4 for residential well sampling locations). Sample RW2 was obtained from Morrison municipal well #4, located approximately 1/4 mile southeast of the site (see Table 3-2 for addresses of residential well sampling locations).

A distilled water field blank and a duplicate residential well sample were also collected in accordance with U.S. EPA QA/QC requirements. The duplicate sample was collected at sampling location RW1.

All residential well samples were obtained from outlets which bypassed water treatment systems and/or storage tanks. The water was allowed to discharge from the outlets for 15 minutes before samples were collected to insure that the samples sources had been purged of standing water (E & E 1987).

All residential well samples were packaged and shipped in accordance with U.S. EPA-required procedures. As directed by U.S. EPA, residential well samples were analyzed for TCL compounds by U.S. EPA CRL of Chicago, Illinois, and for TAL analytes by Versar, Inc., of Springfield, Virginia.

Table 3-2

ADDRESSES OF RESIDENTIAL WELL SAMPLING LOCATIONS

Sample	Well Depth (feet)	Address
RW1 and Duplicate	156	NON- RESPONSIVE
RW2	1,768	
RW3	unknown	

## 4. ANALYTICAL RESULTS

#### 4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil samples and residential and monitoring well samples for TCL compounds and TAL analytes.

## 4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

<u>Soil Samples</u>. Chemical analysis of FIT-collected soil samples revealed substances from the following groups of TCL compounds and TAL analytes: halogenated hydrocarbons, aromatics, polyaromatic hydrocarbons (PAHs), metals, heavy metals, cyanide, common laboratory artifacts (toluene, butylbenzylphthalate), and common soil constituents (see Table 4-1 for complete chemical analysis results of FIT-collected soil samples).

Monitoring Well Samples. Analysis of FIT-collected monitoring well samples revealed substances from the following groups of TCL compounds and TAL analytes: sulfur hydrocarbons, halogenated hydrocarbons, heavy metals, common groundwater constituents, and common laboratory artifacts (methylene chloride, toluene, di-n-butylphthalate, and bis[2-ethyl-hexyl]phthalate) (see Table 4-2 for complete chemical analysis results of FIT-collected monitoring well samples).

Residential Well Samples. Chemical analysis of FIT-collected residential well samples revealed substances from the following groups of TCL compounds and TAL analytes: sulfur hydrocarbons, heavy metals, common groundwater constituents, and common laboratory artifacts (methylene chloride, di-n-butylphthalate, and bis[2-ethylhexyl]phthalate)

(see Table 4-3 for complete chemical analysis results of FIT-collected residential well samples).

U.S. EPA quantitation/detection limits used in the analysis of soil, monitoring well, and residential well samples are provided in Appendix D.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information			Sample	Number		
and Parameters	51	<b>52</b>	<b>S</b> 3	<b>\$4</b>	<b>S</b> 5	<b>s</b> 6
Date	3/15/89	3/15/89	3/15/89	3/15/89	3/15/89	3/15/89
Time	1120	1045	1215	1235	1225	1300
CLP Organic Traffic Report Humber	EE225	EZ226	EZ227	EZ228	EZ229	EZ230
CLP Inorganic Traffic Report Humber	MEDR15	MEDH16	MEDH17	MEDH18	MEDH19	MEDH20
Compound Detected						
(values in µg/kg)						
<b>Tolatile Organics</b>						
chloroform	21	23	12	18	9	14
promodichloromethane	22	24	12	17	8	15
penzene		2Ј				
toluene	43	58J	<b>6</b> J	_		23
Semivolatile Organics						
fluoranthene	1,600J					173
pyrene	1,300J					123
butylbenzylphthalate					11 <b>J</b>	113
benzo[a]pyrene		2,700J				_
Analyte Detected						
(values in mg/kg)						
aluminum	3,670	2,290	4,530	3,770	4,880	6,740
arsenic	1.8B	2.2	2.8J+	2.8	4.5J+	1.35
barium	160	49.4	42.4B	45.6B	58.4	61.6
beryllium		0.4B				0.39
cadmium	3.5					
calcium	63,200	81,000	53,400	53,600	30,300	7,980
chronium	301JE	5 <b>je</b>	9.4JE	7.3JE	10JE	13.2
cobalt	4JBN	3JBN	5.4JBN	6.4JBN	7 <i>j</i> bn	6J
copper	659	9.5	7.7	8.5	6.2	5.7

Sample Collection Information		Sample Number				
and Parameters	<b>S1</b>	S2	<b>s</b> 3	<b>54</b>	<b>s</b> 5	s6
iron	8,350JE	6,180JE	11,200JE	10,000JE	10,400JE	11,900JE
lead	149JN	63.3JM	8.5JN*	8.4	8.1	19JM*
magnesium	29,200J*	43,900J*	24,200J*	24,500J*	13,800J*	4,650J*
manganese	340JNE	349JME	354JNE	421JNE	414JNE	383JNE
mercury	2					
nickel	226	6.1B	12.1	13.4	13.1	11
potassium	387B		168B		160B	262B
silver	13.5					
sodium	1698	126B	106B	88.5	76B	58.1B
vanadium	13.8	12.8	19.7	17.9	21.2	24.8
minc	1,120	69	34.4	43.5	31.1	36.2
cyanide	18.5					

<sup>--</sup> Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
•	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi- quantitative.
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
В	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
3	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED MONITORING WELL SAMPLES

Sample Collection Information		Sample Number			
and Parameters	NW1	Duplicate	MW2	Blank	
Date	3/14/89	3/14/89	3/14/89	3/14/89	
fine	1630	1630	1430	1530	
CRL Log Number	89FS11S43	89FS11D43	89FS11S44	89FS10R13	
CLP Inorganic Traffic Report Mumber	MEDH 29	MEDH30	MEDK31	MEDH32	
Temperature (°C)	10.0	10.0	9.0	-	
Specific Conductivity (µmhos/cm)	1,000	1,000	700	-	
Н	6.75	6.80	6.84	-	
Compound Detected					
(values in µg/L)					
Volatile Organics					
methylene chloride		1 <b>J</b>	2		
carbon disulfide	2	9	4		
chloroform			1	8	
bromodichloromethane	<del></del>			3	
toluene				1	
Semivolatile Organics					
di-n-butylphthalate	27	38	33	6	
bis(2-ethylhexyl)phthalate	2	3	3	2	
Analyte Detected					
(values in µg/L)					
aluminum	11,500J*	3.62J*	79.3JB*		
arsenic	16.6				
barium	128ЈВ	44.8JB	60JB		
calcium	141,000Ј	89,300J	119,000J		
chromium	43.8J*	10.6J*			
cobalt	10.4B				
copper	25.8	14.4B		3.73	

Sample Collection Information		Sample Number			
and Parameters	HW1	Duplicate	MW2	Blank	
lron	18,600J	321J			
Lead	7.1 <i>3</i> M		<del></del>		
magnesium	68,500J	40,300J	51,500J	_	
manganese	562	5.2B	10.1B		
nickel	31.58		32.2B		
potassium	1,920B			_	
sodium	17,300JE	19,400JE	15,600 <b>je</b>		
vanadium	30.5B		_	_	
rinc	122	34.8	63	6.7ЈВ	

<sup>-</sup> Not detected.

# Table 4-2 (Cont.)

COMPOUND	QUALIFIER	DEFINITION	INTERPRETATION
	J	Indicates an estimated value.	Compound value may be semiquantitative.
AMALYTE	QUALIFIERS	DEFINITION	INTERPRETATION
	E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
	N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
	•	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi- quantitative.
	В	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
	J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Table 4-3
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED RESIDENTIAL WELL SAMPLES

Sample Collection Information	Sample Number					
and Parameters	RW1	Duplicate	RW2	RW3	Blank	
Date	3/15/89	3/15/89	3/15/89	3/15/89	3/15/89	
rime	1000	1000	1010	1030	1145	
CRL Log Number	89FS11S45	89FS11D45	89FS11S46	89FS11S47	89FS10R14	
CLP Inorganic Traffic Report Number	MEDH31	MEDH22	MEDH 23	MEDH24	MEDH 28	
Temperature (°C)	8.5	8.5	11	8.5		
Specific Conductivity (µmhos/cm)	510	510	460	560		
ри	6.64	6.64	6.82	6.50		
Compound Detected						
(values in µg/L)						
Volatile Organics						
methylene chloride			<b>1</b> J			
carbon disulfide			2			
dibromochloromethane					1	
bromoform					1	
Semivolatile Organics						
di-n-butylphthalate	6	7	4	4	4	
bis(2-ethylhexyl)phthalate	2	2	2			
Analyte Detected						
(values in µg/L)						
aluminum	28B					
arsenic	5.0B	4.5B				
barium	83.6	89.2	78.8	82.8	-	
calcium	85,800	92,300	65,200	93,600	66.2B	
chronium				23.9		
cobalt		5.1B		5.5B		
iron	5,620	5,960	33.4B	19.5B		
lead				7.0		

Table 4-3 (Cont.)

Sample Collection Information		Sample Number			
and Parameters	RW1	Duplicate	RW2	RW3	Blank
agnesium	37,900	38,300	31,700	40,500	13.4B
mangan 050	29.8	28.9	2.7B		
potassium	1,140B	1,520B	6,140	2,080	1,130B
odium	4,340	4,630	4,760	6,740	74.4B
zinc	65J	95.3J	6.4JB	26.2J	

<sup>--</sup> Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
В	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

#### DISCUSSION OF MIGRATION PATHWAYS

## 5.1 INTRODUCTION

This section presents a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the City Dump site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

## 5.2 GROUNDWATER

The general geology of the area surrounding the City Dump site consists of glacial drift deposits associated with the Illinoian-stage ground moraine. The glacial deposits are underlain by Silurian age dolomite bedrock (Niagaran and Alexandrian formations). The dolomite units are separated from the underlying Cambrian and Ordovician sandstone and dolomite formations by the Maquoketa shale unit (JM&A 1987). According to area well logs (see Appendix E), the Maquoketa shale unit is continuous throughout a 3-mile radius of the site and therefore acts as a confining layer. The glacial deposits and uppermost dolomite bedrock units therefore act as a single aquifer, while the deeper Cambrian and Ordovician formations act as a second aquifer.

The glacial deposits, consisting of fine-grained till, sand, and gravel, combined with Silurian age dolomite bedrock form the first, or shallow, aquifer, which is the aquifer of concern. The glacial deposits are 60 to 120 feet thick in the area of the site. The thickness of the dolomite bedrock ranges from 175 to 225 feet (JM&A 1987).

The second, or deeper, aquifer is used as the source of drinking water for the city of Morrison. However, due to the presence of the confining Maquoketa shale layer, this aquifer is not considered to be the aquifer of concern.

Using United States Geological Survey (USGS) topographic maps of the area of the site, as well as monitoring well water level measurements, groundwater flow direction was determined to be to the northwest, toward Rock Creek. The nearest well is located approximately 1/4 mile southeast of the site.

The population using the aquifer of concern consists of those persons using private residential wells located within a 3-mile radius of the site. Using USGS topographic maps, 551 houses were counted within a 3-mile radius of the site outside the Morrison city limits (USGS 1985). Using 1980 Census information for Whiteside County (U.S. Bureau of the Census 1982), an average of 2.81 persons per household was used to calculate the private residential well target population of approximately 1,545 persons.

Based on the available geological information, a potential does exist for TCL compounds and/or TAL analytes to migrate from the site into groundwater.

TCL compounds and TAL analytes were detected in groundwater within a 1-mile radius of the site. Analytes detected include chromium at 43.8J\* µg/L in MW1 and aluminum at 11,500J\* µg/L, also in MW1 (see Table 4-2 for qualifier explanations). Chromium was also detected above background concentrations in on-site soil sample S1. However, since MW1 is located upgradient of the site, the presence of chromium in the groundwater may not be attributable to the site. Aluminum was detected in background and on-site soil samples in similar concentrations; therefore, the presence of aluminum in groundwater is probably not attributable to the City Dump site.

Other compounds and analytes detected in groundwater were either groundwater constituents common to the area, were not detected in onsite soil samples collected, or were detected in similar concentrations in both upgradient and downgradient well samples collected; therefore, they may not be attributable to the site.

Other TCL compounds and TAL analytes were detected in on-site soil samples collected. Among these are nickel, which was detected at a concentration of 266 mg/kg in S1, and mercury at 2 mg/kg, also in S1. These analytes were detected in on-site soil samples in concentrations greater than corresponding background soil sample concentrations. There fore, these compounds and analytes may be used to characterize the waste at the City Dump site.

#### 5.3 SURFACE WATER

No surface water samples were collected as part of the SSI at the City Dump site. The nearest surface water body is Rock Creek, located approximately 1/4 mile northwest of the site. The potential for TCL compounds and/or TAL analytes to migrate from the site to Rock Creek via surface water is minimal because the creek is separated from the site by roads, houses, and other flow impediments.

### 5.4 AIR

A release of potential contaminants to the air was not documented during the SSI of the City Dump site. During the reconnaissance inspection, FIT site-entry instruments (colorimetric monitoring tubes for cyanide, oxygen meter, explosimeter, OVA 128, and radiation monitor) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

Due to the presence of TCL compounds and TAL analytes in on-site surface soils, a potential exists for windblown particulates to carry TCL compounds and TAL analytes from the site. The population within a 4-mile radius of the site potentially affected by windblown particulates is approximately 6,604 persons. Using USGS topographic maps (USGS 1985), 713 homes were counted within a 4-mile radius of the site. Using Whiteside County 1980 Census information, an average of 2.81 persons per household was used to calculate a population of 2,004. This figure was added to the population of the city of Morrison (4,600) to determine the total air target population of 6,604 persons.

### 5.5 FIRE AND EXPLOSION

FIT observations and explosimeter readings indicated no apparent potential for fire and/or explosion at the City Dump site at the time of the SSI.

### 5.6 DIRECT CONTACT

According to federal, state, and local file information, as reviewed by FIT, no documentation exists of an incident of direct contact with TCL compounds or TAL analytes at the City Dump site. However, since the site is a public baseball field, a potential for the public to come into direct contact with TCL compounds and/or TAL analytes does exist.

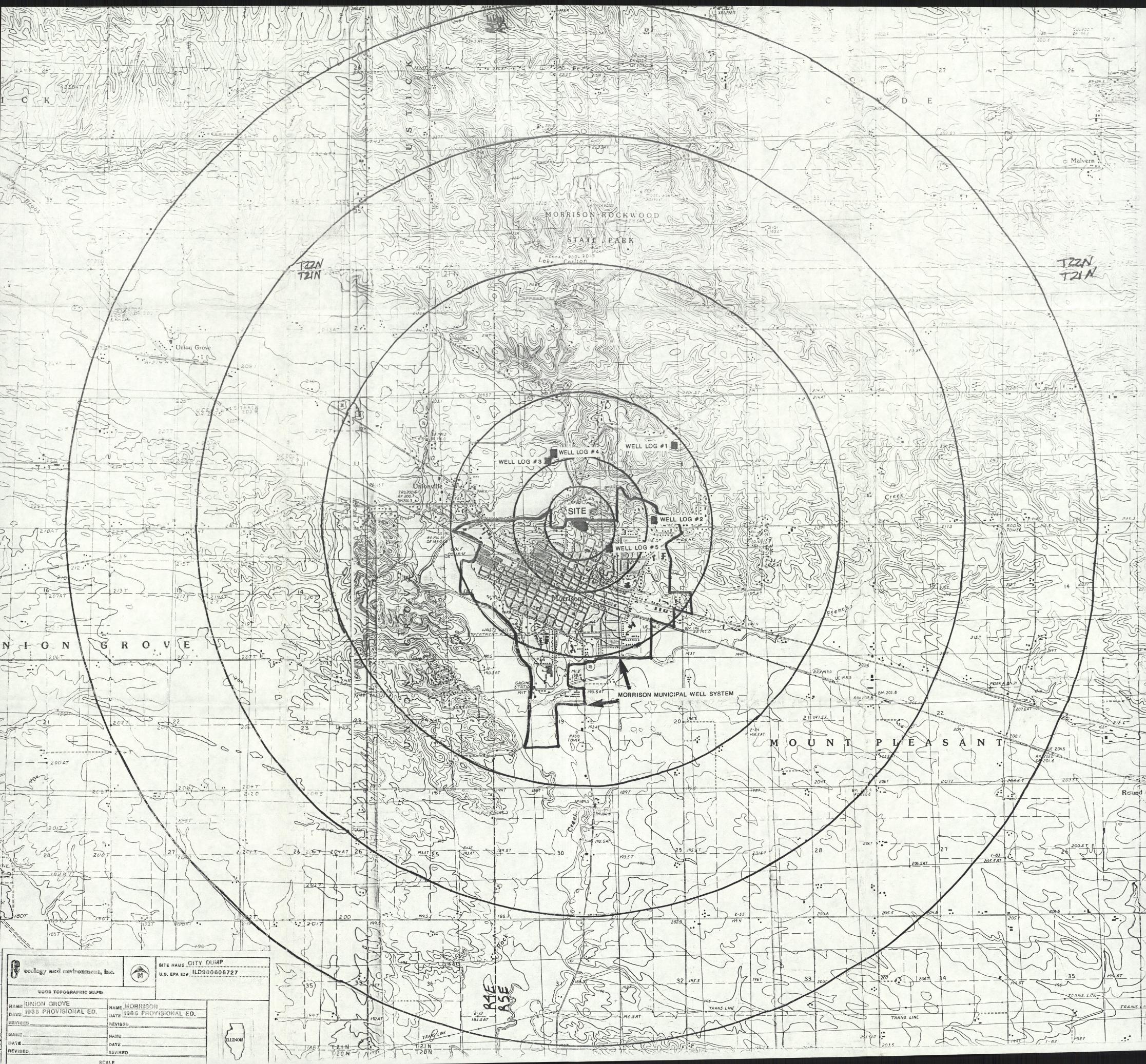
According to calculations using USGS topographic maps of the area of the site, the population within a 1-mile radius of the site is approximately 4,329 persons. Using USGS topographic maps (USGS 1985), 158 houses were counted within a 1-mile radius of the site. Using 1980 Census information, an average of 2.81 persons per household was used to calculate a population of 444. A planimeter was used to determine the population of Morrison which lies within a 1-mile radius of the site (3,885). These figures were added to give the total potential target population of approximately 4,329 persons.

#### 6. BIBLIOGRAPHY

- E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois.
- JM&A, 1987, Phase I Remedial Investigation Report City of Morrison, Morrison, Illinois, prepared for IEPA.
- Tapson, Sam, March 1989, City Administrator, Morrison, Illinois, interview, conducted by Karen M. Spangler of E & E.
- U.S. Bureau of the Census, 1982, 1980 Census of Population, Volume I, Characteristics of the Population, Illinois.
- U.S. EPA, June 8, 1981, form 103(c), Notification of Hazardous Waste Site, Site Identification: ILD980606727, submitted by General Electric Company, Morrison, Illinois.
- Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.
- USGS, 1985, Morrison, provisional edition; Union Grove, provisional edition, Illinois quadrangles, 7.5 Minute Series: 1:24,000.
- 3715:6

APPENDIX A

SITE 4-MILE RADIUS MAP



# APPENDIX B

U.S. EPA FORM 2070-13

# POTENTIAL HAZARDOUS WASTE SITE

	FICATION
01 STATE	OZ SITE MAMBER
IL	0980606727

<b>SEPA</b>	PART1-SI	SITE INSPECT TE LOCATION AND			ATION	IL	0980606727	
IL SITE NAME AND LOCA						<del></del>	· · · · · · · · · · · · · · · · · · ·	
OI SITE NAME A opel commen or			OZ STRE	ET, ROUTE NO., OR S	PECIFIC LOCATION	DENTIFIER	<u> </u>	
CITY Dur	0P		700 N. Genessee Avenue					
MORRISON		I L	61270	Whitesie	de	OTCOUNTY ON CONG COOK OST 195 19		
OR COORDINATES		IN TYPE OF OWNERS	-	-	D.C. STATE D		B E. MUNICIPAL	
III. INSPECTION INFORM		1 21.01.21.2						
01 DATE OF INSPECTION  3,15,89  MONTH DAY YEAR	02 SITE STATUS  D ACTIVE  NACTIVE	03 YEARS OF OPERAT	YON NAMES YE	AR ENOING YEA	<u>×</u> ,	UNIONOWN	suspected~ 1949-1959	
D4 AGENCY PERFORMING INSP		·						
DA.EPA B.EPAC	ONTRACTOR COLOGY SE		DG.O	UNICIPAL [] (). I THER		ACTOR_	Para d'Eng	
OS CHEF INSPECTOR		friance of limit			(Specify) 07 ORGANIZA	TOOM	OR TELEPHONE NO.	
Karen M.	Spander		enta.	l Engineer			13216639415	
09 OTHER INSPECTORS	<del></del>	10 TMLE			11 ORGANIZA	TION	12 TELEPHONE NO.	
Ted Nehrl	Korn	Environn	nenta	1 Enginee	1 ESE/	FIT	1301663415	
William Pe	erpich	Water Re	Sour	ce Manag	er ECE/	FIT	(30) 663A+15	
Regina Ba	•	Water	Che	mist	E!E/	FIT	32163915	
Jeff Dicks	Geoloa	Geologist			FIT	131216639415		
	·						( )	
Sam Taps		City Administr	امنعان	200 W.	Morris Min Street		18151772-7657	
					Morri	son, IL		
George Pi	er501	Mayor		200 W. 1	Thin OHE	ret	18951772-7657	
				····			( )	
							( )	
							( )	
							( )	
17 ACCESS GUNED BY [Check and PERMISSION  WARRANT	3/15: 0900 - (4 15		9°F ,	overeast overeast	, windy			
IV. INFORMATION AVAIL	_ABLE FROM	Top or		·			(A) TO 1 CO 1	
01 CONTACT		02 OF Manago	- ·		Adedia 1	المصم	OSTELEPHONE NO.	
Tom Craus				ronmental			62171782-9818	
04 PERSON RESPONSIBLE FO		05 AGENCY		GANZATION	07 TELEPHONE	-	OS DATE	
Karen M. St	ander	ILLS. EPA	IE	E/FIT	312-663	19415	07,21,89	

### SEPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

LIDENTIFICATION

OISTATE OF SITE MANGER

IL D98066727

PART 2 - WASTE INFORMATION								
N. WASTE STATES, QUANTITIES, AND CHARACTERISTICS								
	TATES (Chick differ south)	02 WASTE QUANT	TY AT SITE	03 WASTE CHARACT	ERISTICS (CARCI MINA	NOTE:		
D.C. SLUDGE	CI A. SOUD DE SLURRY DB. POWDER, FINES OF LIQUID DC. SLUDGE CG. GAS CUBC YARDS		Unknown Unknown Unknown	BLA TOXIC USE SOLUTION OF PAPER USE RADIOACTIVE USES FLAVORED OF PERSISTENT OF HIGHT		TIOUS OF EXPLOS	DIVE ME PATELE	
	(Social)	NO. OF DRUMS -	Umnicon	<u> </u>				
IIL WASTE T	YPE	<del></del>	<u> </u>	·		· · · · · · · · · · · · · · · · · · ·		
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	<del></del>	·	
SLU	SLUGGE							
OLW	OCLY WASTE							
soc	SOLVENTS		Unknown	Unknown	Informa	tion on u	vasks	
PSD .	PESTICIOES			 	deposited	on-sike	<u>آخ</u>	
occ	OTHER ORGANIC CI	ÆMICALS	Unknown	Unknown	unknown	n		
100	INORGANIC CHEMIC	ALS.				·		
ACD	ACIOS	<del></del>		<u> </u>				
BAS	BASES	<del></del>						
MES	HEAVY METALS		Unknown	Unknown				
IV. HAZARD	OUS SUBSTANCES COM A	condit for most frequent	y cred CAS Humbers					
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OG MEASURE OF	
SOL	chlorp form		67-66-3	Unknown	1- 52	23 24	us /kg	
occ	bromo dichlor	emethane	75-27-9	Unknow	Unknown-52		US/KG	
50L	benzene		71-43-2	Unknow	7- 52	25	UK/KS	
OCC	benzo [a] pi	rene	50-32-8	Unknown-SZ 12,700			us lta	
oce	Fluoranthen	<u>e</u>	206-11-0	Unknow	n-51	1,600 J	usika	
occ	Purene	·	129-00-0	Unknow	n-51	1.300 J	uclka	
MES	aluminum		7429-90-5	Unknow	7-55	4,880	Mg kg	
mes	assenic		7-110-38-2	-38-2 Unknown - 55		1.5 J+	malke	
mes	bacium		7410-39-3	Unknow	7-51	160	melke	
MES	becullium		7410-11-7	Unknow	n- 32	0.4 B	mika	
MES	codmium		7410-13-9	Unknow	m-51	3.5	melka	
MES	Calcium		7410-70-2	Ilnknown	·-52	81,000	melka	
mes	chronium		7410-47-3	Unknow	7-51	301 JE	milke	
mes	cobatt		7440-48-4	Unknow	n-55	7 JBN	ma Ke	
mes	copper		7410-50-8	Unknow	n-51	659	malka	
mes	noni		1	Unknow		11,200 JE	24/200	
	XXS is a source or cas one	+1	· · · · · · · · · · · · · · · · · · ·		<u></u>		-C. 16.11	
CATEGORY	<del></del>		02 CAS MUNISER	CATEGORY	O1 FEEDSTO	OCK NAME	02 CAS MANGER	
FOS	٠٠ ٨١٩		NA	FDS	Λ.	)A	·NA	
FDS	NA		NA	FOS			NA	
FOS	NA		NA	FOS NA		NA		
FDS	NA		NA	FDS		A.	NA	
	S OF INFORMATION ICA		, state that, somple analysis,	reporte)				
E;E	/FIT Site I /FIT Files	nspection, Region:	¬ 1989. ▼ .					
1		**						

	OZ SUBSTANCES 1840 APPORT DE TOTO DE T	CO CAS NUMBER	04 STORAGE DISPOSAL METHOD	As concerned a	OF MEASURE C
O1 CATEGORY				05 CONCENTRATION	OG ME ASUPE CI
mes	lead	7439-92-1	Unknown - 51	149 JN	ms lks
MES	manesium	7434-45-7	Unknown - SZ	13,900 J*	, J
MES	manganese	7439-46-5	Unknown-54	121 JNE	mslks
mes	mercury	7139-97-6	Unknown-51	2	ms/ Kg
mes	<u>nickel</u>	7440 - 0Z-0	Unknown-51	226	mg/kg_
MES	potassium	7410-09-7	Unknown-SI	387 B	mg/kg
mes	'silver	7440-22-4	Unknown-51	13.5	mgkg
mes	Sodium	7440-23-5	Unknown-SI	169	mg/kg
mes	Vanadium	7410-62-2	Unknown-55	21.2	mg/lg
mes	Zinc	7410-ldo-6			ms/ks
FOC	cyanide		Unknown-51	18.5	ms/kg
		<b></b>			
		<u> </u>			ļ. —_
		ļ			ļ
1	Note: Concentrations	provided	indicate maximum	value	
	detected in on	tsite san	noles. Specific sou	nole	<u> </u>
	locations for	these m	· · · · · · · · · · · · · · · · · · ·	re	
	indicated as	"52" 10	column 01. See	able 4-1	-
	For qualifier	deseria	tions.		
	7	Security	1		
		<u> </u>			<del>                                     </del>
		<del> </del>		<del> </del>	<del> </del> -
	· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>			
					<del> </del>
	<del></del>			<del> </del>	<del>                                     </del>
		···-		<u> </u>	<del> </del>
	<u> </u>				<del></del>
			<del></del>		<del> </del>
				<del> </del>	<del> </del>
		<del></del>		<del> </del>	<del> </del>
		<del> </del>			<del> </del> -
		<u> </u>	ļ	<u> </u>	<u> </u>
					1
				1	1
		1			1
		1			<del>                                     </del>
		ı			
				<del> </del>	<del> </del>

**ŞEPA** 

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DESCRIPTION OF MATARDOUS CONDITIONS AND INCIDENT

L IDENTIFICATION

01 STATE 02 SITE HUMBER

IL DAROGO 067 2.7

PART 3 - DESCRIPTION OF HA	NZARDOUS CONDITIONS AND INCIDENTS	11/11/11/11	180006727
IL HAZARDOUS CONDITIONS AND INCIDENTS			
of the section of the	02 © OBSERVED (DATE: 3/11-15/89) 04 NARRATIVE DESCRIPTION 1-11 V.C.	O POTENTIAL	O ALLEGED .
01 DB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: See Section 5.3 of narro	02 () OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION CLTIVE.	O POTENTIAL	D ALLEGED .
of a contramnation of an of population potentially affected. ~6,609  See Section 5.4 of name	02 () OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION  Cative.	POTENTIAL.	C) ALLEGED
se section 5.5 of nar	rative.	D POTENTIAL	O ALEGED
5ee Section 5.6. of man	rative.	■ POTENTIAL	C ALLEGED
of BF. contamenation of sol N3 os area potentially affected: N3 See section 5.2 of narr	02 © OBSERVED (DATE: 3/15/189) 04 NARRATIVE DESCRIPTION  TO HIVE.	O POTENTIAL	O ALLEGED
of BG Drawing water contamination ~1,548 or population potentially affected: ~1,548 See section 5.2 of nar	02 ® OBSERVED (DATE: 3/15/89) 04 NARRATIVE DESCRIPTION COTIVE.	D POTENTIAL	() ATTEGED
OID IL WORKER EXPOSIBEMUNTY  OID IL WORKER EXPOSIBEMUNTY  OID IL WORKER EXPOSIBEMUNTY	02 C) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	C) ALLEGED
of the population exposure musing 03 population potentially affected: ~6,601 See Sections 5.4 and 5.	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION 6 OF MArrative For des	POTENTIAL fails.	() ALLEGED

### **\$EPA**

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

OI STATE OZ SITE MANGER

TL DASOGO6727

IL HAZARDOUS CONDITIONS AND INCIDENTS (COLLAR)
02 DOBSERVED IDATE
of the damage to fauna exists since the site is located on the north edge of the city of Morrison and open lands are present in the area. To compounds and TAL analytes were detected in on-site soils.
OI DE CONTAMBUTION OF FOOD CHAIN  OF NARRATIVE DESCRIPTION  A potential For contamination of the food chain exists if damage to Flora or fauna were to occur.
01 D M. UNSTABLE CONTAINMENT OF WASTES 02 DOBSERVED (DATE:) D POTENTIAL D ALLEGED SOME MODEL CONTAINMENT OF WASTES 02 DOBSERVED (DATE:) D POTENTIAL D ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION  N'ONE HOLLON.
01 D N. DAMAGE TO OFFSITE PROPERTY 02 D OBSERVED (DATE:) D POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION  None known.
01 () Q. CONTAMBUTION OF SEWERS, STORM DRAINS, WWTP\$ 02 () OBSERVED (DATE:) () POTENTIAL () ALLEGED OF NARRATIVE DESCRIPTION  NOTICE KIOWIT:
or the site allegedly operated as a landfill prior to permitting requirements. Solvents may have been dumped directly onto the ground at the site.
os description of an other known potential of allegeo Hazaros  In 1986, during, routine testing by IEPA, trichloroethylene (TCE)  Was discovered in several of the Morrison municipal wells. As a  result, 2 wells were shut down, and an investigation was conducted  to determine potential sources and the extent of contamination.
ML TOTAL POPULATION POTENTIALLY AFFECTED: ~ 6,604
No additional Comments.
V. SOURCES OF INFORMATION (CA Expected information in g., state time, earning analysis, reports)
E:E/FIT Site Inspection, 1989. E:E/FIT Files, Region I.

<b>\$EP</b> A
PERMIT MEORI

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

	FICATION
OI STATE	02 SITE NUMBER
エし	D980606727

VEFA	5 PART4-PERMIT	AND DE	-		ion L	IL D980606727
IL PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	O3 DATE	SSUED	O4 EXPIRATION DATE	OS COMMENTS	
Date of the state						
DA NPOES		ļ			<u> </u>	
D.B. UKC		<u> </u>		·		
□C. AIR						
DD. RCRA						
DE. ACRA INTERIM STATUS		<u> </u>				
OF. SPCCPLAN						····
D.G. STATE (Speedy)		<u> </u>				. <u></u>
TH LOCAL (Specific						
DL OTHER (Specify)						
#J. NONE						
III, SITE DESCRIPTION						
01 STORAGE/DISPOSAL (Check of Pril 1994)	02 AMOUNT 03 UNIT OF	MEASURE	04 TF	EATMENT (Check of their a	<b>~</b> ∕11	05 OTHER
A SURFACE IMPOUNDMENT			01	INCENERATION		
CI 8. PILES			<b>□</b> Β.	UNDERGROUND INJE	ECTION	D A BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND		<del></del>	□ C.	CHEMICALIPHYSICA	L	None
D. TANK, ABOVE GROUND		<del></del>	1 -	BIOLOGICAL		
() E. TANK, BELOW GROUND	Unknown Unk	nouin	1	WASTE OIL PROCES		OG AREA OF SITE
D.G. LANDFARM			F. SOLVENT RECOVERY     G. OTHER RECYCLING/RECOVERY			~3 <sub>4000</sub>
D H. OPENDUMP				OTHER _ None		
O LOTHER			- '''	(See	city	Ì
07 COMMENTS			L	<del></del>		
The site is believed the types of windled hou	astes deposited use hold and inc	Gr dust	e u	nknown, Wasks.	but m	ay have
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Chief and	D B. MODERATE			utt 0000	O 0 2000000	~ 1500000 54000000
D A. ADEQUATE, SECURE	D B. MOUGWIE	<b>B</b> C. <b>T</b>		JATE, POOR	U D. MSECOR	E, UNSOUNO, DANGEROUS
No lining is known to have been present at the site.  Information on wastes as deposited is unknown although a Notification of Hazardous Waste Site form (Form 103c)  Filed by General Electric, Co. indicated that solvents may have been dumped directly onto the ground. The Form 103c was filed in 1981.  V. ACCESSIBILITY  OI WASTERSLY ACCESSIBLE TES DIO						
used by the pu detected in an o	blic. TCL compo n-site surface	ლd5 <u>50</u>	1 5	othl an	aluks i	vere
VL SOURCES OF INFORMATION IC			-cu/	<del></del>		· · · · · · · · · · · · · · · · · · ·
E:E/FIT Sik II E:E/FIT Files	ispection 1489 , Region¥.	<b>r.</b>				
I						

				~	<del></del>		
OFDA	POT		RDOUS WASTES	ITE	L IDENTIFICATION 01 STATE 02 STE NUMBER		
<b>ŞEPA</b>	SHE INSPECTION REPORT						
	PART 5 - WATER	L, DEMOGRAPHI	C, AND ENVIRON	KENTAL DATA	<u> </u>		
IL DRINKING WATER SUPPLY							
01 TYPE OF DRINGING SUPPLY		02 STATUS			03 DISTANCE TO SITE		
(Chaot as assistanting SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED			
COMMUNITY A. []	8. <b>3</b>	A.D	8 0	C.	~ <u>~ \4</u> (mi)		
NON-COLEMUNITY C. []	D. <b>3</b>	0. 🗅	€. □	F. O	8. ~ Y2 (mg)		
ML GROUNDWATER	. <del> </del>	<del></del>					
OI GROUNCWATER USE IN VICINITY JOHN	nel				<del> </del>		
■ A. OMLY SQUIRCE FOR DRINKING □ B. DRINKING □ C. COMMERCIAL, INDUSTRIAL, IRRIGATION □ D. NOT USED, UNUSEABLE							
	COMMERCIAL IN	<del>644)</del> BOUSTRIAL, IRRIGATIO	Almide before so. N	rc os ovedebnij			
	(No other water pour	cas avallable)					
· · · · · · · · · · · · · · · · · · ·		<del></del>			1/4		
02 POPULATION SERVED BY GROUND WAT	ER N1,548	_	03 DISTANCE TO MEARE	ST DRINKING WATER	WELL ~ 14 (mi)		
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	DUNOWATER FLOW	06 DEPTH TO AQUIFER	07 POTENTIAL YES	D 06 SOLE SOURCE AQUIFER		
~60-120 m	N	$\mathcal{N}$	00000000000000000000000000000000000000	Unknown	□ YES ■ NO		
		<del></del>	- <u>DD 120 (n)</u>	<u> </u>	L{gpd}		
see section 5.2		a tile for	details.				
300 300 HBK 5.6	0, (10.1)	21.10	delat.s.				
10 RECHAGE AREA	. t	•	11 DISCHURGE AREA				
TES COLMENTS Recha	ige throu	بري:	TES COMMEN	rs Unkno	wn		
DNO precipita	1000 (UTIL	ration	DNO				
IV. SURFACE WATER							
OI SURFACE WATERUSE (Check and		· · · · ·					
	0.0000470			AL MICHETRIAL	D. a. ANT OLIDOCHE VANCA		
B A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N, ECONOMICALLY NT RESOURCES	C) C. COMMERC	ENT MODELLAND	D D. NOT CURRENTLY USED		
<u> </u>	<del>_</del>	<del></del>					
03 AFFECTED/POTENTIALLY AFFECTED BO	OIES OF WATER						
NAME:				AFFECTED	DISTANCE TO SITE		
Rock Creek				0	~ /4 (m)		
French Creek		•	-	0	~   (mi)		
Lake Carlton				0			
V. DEMOGRAPHIC AND PROPERTY	INFORMATION						
01 TOTAL POPULATION WITHIN			To	2 DISTANCE TO NEAR	EST POPULATION		
ONE (STAME OF SITE TA	O (2) MILES OF SITE	These	3) MILES OF SITE				
ONE(1) ME OF SITE TW A V 1 329 B	~5.645		V6 148	_~	, O , I		
MO OF PERONS	HO. OF PERSONS		O OF PERSONS				
03 NUMBER OF BUILDINGS WITHIN TWO (2)	MILES OF SITE		04 DISTANCE TO NEARE	ST OFF-SITE BUILDING	•		
N2008 N200Z (m)				) Z (m)			
05 POPULATION WITHIN WONITY OF SITE (	Troutle harratha description of	I natura of processor	Marie de la contraction				
population not rural and re-	ted on the	e north	side of H	oe cite	of Marcison		
population no	1600. Th	e Surrou	nding ar	ec is	cimacitu		
rucas and re-	sidential	ton ni	re The to	del ano	lation		
within a Arm	ile codi	15 of +4	ne site is	O Decay	makly 6.601		
persons.		~5 01 11		wrr. ox			
her sous.							

_		
4.5	EDA	
~		
		ı.

### POTENTIAL HAZARDOUS WASTE SITE

LIDENTIFICATION

01 STATE OS SITE NUMBER

SEPA	PART 5 - WATER, DEMO	NSPECTION REPOR GRAPHIC, AND ENVI	ı	IL 1980606727
VL ENVIRONMENTAL INFORMA	ATION			
O1 PERMEABILITY OF UNSATURATED Z	ONE (Check eng)			
□ A, 10 <sup>-4</sup> - 10 <sup>-</sup>	-® cm/sec ■ 8. 10-4 10-6 cm	/sec □ C. 10 <sup>-4</sup> - 10 <sup>-1</sup>	on/sec E D. GREATER TH	IAN 10 <sup>-3</sup> cm/sec
02 PERMEABILITY OF BEDROOK (Chick	•~	· · · · · · · · · · · · · · · · · · ·		
() A. IMPERA Rose from	MEABLE D.B. RELATIVELY IMP	ERMEABLE C. RELAT	IVELY PERMEABLE [] D. VI	ERY PERMEABLE valor Pan 10 <sup>-2</sup> gantacij
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL Z	ON€   05 SO	E.pH	
N 60-120 m	Unknow	na L	Inknown	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RANFALL	06 SLOPE SITE SLOPE	- DIRECTION OF SITE SI C	PE, TERRAIN AVERAGE SLOPE
<u>~</u>	2.6	N NO	-× NA	<u>-43</u> *
STEIS IN NA YEAR FLO	NA DISTESS	ON BARRIER ISLAND, COA	STAL HIGH HAZARO AREA, RI	VERINE FLOODWAY
11 DSTANCE TO WETLANDS IS ACH MINIS		12 DISTANCE TO	CRITICAL HABITAT per ordergored as	was I
ESTUARINE	OTHER		23	(mi)
NA NA	8. 74 (mi)	ENDANG	ERED SPECIES: NO NO	nearby
13 LANGUSE IN VICINITY				
DISTANCE TO: COMMERCIAL/INDUSTR		S; NATIONALISTATE PARI R WILDUFE RESERVES	CS, AGRICU PRIME AG LAND	ILTURAL LANDS AG LAND
A ~0.02(m)	•	<u> </u>	c. <u>NA</u>	mi) D. ~ \( \frac{\frac{1}{4}}{(mi)} \)
14 DESCRIPTION OF SITE IN RELATION			· · · · · · · · · · · · · · · · · · ·	
See Appendi	ix A for 4-mi	le radius r	rap.	
				•
f				•
				•
VIL SOURCES OF INFORMATIO	N 15th specific references, 4.8., 1684 Bes, ser	TON ANALYSIS, PROPERTY		
E! = / K 1 - 4:10 1	Taxanatia 1000	<del></del>		
E!E/FIT Files	Inspection, 1989, , Region V.			
•				

OFDA	P		AZARDOUS W		OI STATE OF	
<b>\$EPA</b>	2.4		SPECTION REI		ILD	980606727
	P/	ARI 6-SAMPL	E AND FIELD IN	FORMATION		
IL SAMPLES TAKEN	TOT NUMBER OF	OZ SAMPLES SEN	g 10			Ton service and
SAMPLE TYPE	SAMPLES TAKEN					OJ ESTRATED DATE RESULTS AVALABLE
GROUNOWATER	2	TAL: U.S.	EPA CRL tone Env. Re	Chicago,	t L. Houston, TX	On File.
SURFACE WATER				•		
WASTE				/		
AR						
RUNOFF		<u> </u>				
SHIT						
SOL	6	TAL: Key S	Bartlett D tone Env.	iv., Bartle Resources	H, IL Houston TX	On File.
VEGETATION				•		
oner - Residential Wells	3	TAL: Ver	EPA CRL Sac, Inc.	, Chicago , Springfil	IL eld VA	On File.
IIL FIELD MEASUREMENTS TA				, <i>I</i> J		
Color monitoring	02 COMMENTS					
tubes for cyanide.	No color	- change	·			
Oxygen meter.	No read	lings å E	pove bac	kground	•	
Explosimeter	No read	dings a	bove bo	ocka roun	d	
OVA-12B	No rea	dings c	above L	ackarow	nd.	
Adiation mini-alert				nckaroui		
IV. PHOTOGRAPHS AND MAPS	S			<b>&gt;</b>		
01 TYPE & GROUND () AERIAL		02 IN CUSTODY OF	Ecology 1	Environme	ent Inc.	<del></del>
OS MAPS ON LOCATION  ON ECOL	OF MAPS				lvd. Chicago	,IL
V. OTHER FIELD DATA COLLE	<del></del>					
Monitoring Ne					<del> </del>	
Well #	Depth (	Feet)*	Depth to H	Vater (Feet)	<b>)</b> +	
mwi	85.6	0	75	.75		
mwz	24.6			.88		
	_	_				
	s from top	of we	u casing	•		
VL SOURCES OF INFORMATIO		1/ O/	MAN WOOLS		· . ·	
ESE/FIT Six	Inspections, Regions	T.				
EPA FORM 2070-13 (7-61)						

	£	POTENTIAL HAZ	ARDOUS WASTE SITE	L IDENTIF	
\$EPA '			I TI		2 STE NUMBER D980606727
		PART 7 - OWN	IER INFORMATION	الماشقا	
IL CURRENT OWNER(S)			PARENT COMPANY or appears		I
City of Morrison		02 0+8 NUMBER	NA		09 D+8 NUMBER
200 W. Main Stree	t	04 SC COO€	10 STREET ADDRESS (P.O. Bac NO P. ac.)		11SIC CODE
as any	OS STATE	07 ZP COOE	12 CITY	13 STATE	14 ZP COOE
Morrison	IL	61270			
NA		02 D+6 NUMBER	NA NA		09 D+8 NUMBER
03 STREET ADDRESS (P.O. Bis, MOV, on)		04 SIC COO€	10 STREET ADDRESS (P.O. Box, AFD F, asc.)		11 SC COOE
οs ατ <b>γ</b>	OS STATE	07 ZIP CODE	12 OTY	13 STATE	14 ZIP CODE
NA NA		02 D+8 MUMBER	OB NAME NA		09 0+8 NUMBER
03 STREET ADDRESS P.O. Box. NO.P. on.)		64 SIC CODE	10 STREET ADDRESS (P.O. Boc. NO F. oc.)	<del>-,, -, -, -, -, -, -, -, -, -, -, -, -, </del>	115C COOE
os aty	06 STATE	07 ZIP COO€	12 017	13 STATE	14 ZP COOE
OI NAME AAA		02 D+8 NUMBER	OS NAME NA	_1,	090+8 NUMBER
03 STREET ADDRESS (P.O. Ilos. NOV. esc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Bas, NO P. occ.)		115€ 000€
os any	06 STATE	07 ZP COOE	12 OTY	13 STATE	14 2P COOE
BL PREVIOUS OWNER(S) EM most record free.			IV. REALTY OWNER(S) of authors; he work	00.00T B100	
OI NAME . NA		02 0+6 NUMBER	OI NUME NA-		02 0+8 NUMBER
03 STREET ADDRESS (F.O. Roc. MTD F. orc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Sec. MOV. etc.)		04 SC CODE
os any	06 STATE	07 ZIP COO€	OS CITY	OS STATE	07 ZP CODE
NA		02 D+8 MUMBER	NA		02 D+B NUMBER
03 STREET ADDRESS(#.O. But, APD4, sec)		04 SIC CODE	03 STREET ADDRESS P.O. Sec. MDV, vir.)		04 SIC CODE
OS CITY	06 STATE	07 ZP COO€	os atv	06 STATE	07 ZIP CODE
OI NONE NA		02 D+8 NUMBER	o1 KUÆ NA		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, MODI, oc.)		04 SIC COOE	03 STREET ADDRESS (F.O. dec. MOF, etc.)		. 04 SC COOE
osaty	OSSTATE	07 ZP COOE	05 CITY	OS STATE	07 ZP COO€
V. SOURCES OF INFORMATION (CAN ADDICATE	c references.	e.g., state their comple energes.	reports		
E!E/FIT Site Inspect E!E/FIT Files, Red	tion	, 1989. V			

O FDA		PO		RDOUS WASTE SITE	LIDENTIF	
<b>\$EPA</b>		SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION		01 STATE 02 STE MANBER IL 098060677		
IL CURRENT OPERATOR (Promy Colleges Sans				OPERATOR'S PARENT COMPANY Managemy		
OI NAME			02 0+8 MUMBER	10 NAME		110+8 NUMBER
Cidy of M	orrison			NA		
200 W. Ma			04 SiC 000€	12 STREET ADDRESS IP 0 doc AFD 1, acc)		13 SIC CO0€
as arr	11. 311001	OG STATE	07 ZIP COOE	14 OTY	15 STATE	16 ZP CODE
Morrison		IL	61270	/		
08 YEARS OF OPERATION	city of	Mor	rison			
IIL PREVIOUS OPERAT	OR(S) Res mas moved to	ac pro-cos ess	( diver her e-net)	PREVIOUS OPERATORS' PARENT	COMPANIES &	epolicable)
OI NAME			02 D+B NUMBER			110+B NUMBER
NA	· <del></del>			NA		113 SIC COO€
03 STREET ADORESS (P.O. &	L. AFD F. MC.S		04 SIC COO€	12 STREET ADDRESS P.O BUL PEO P. ORL	ET ADDRESS M.O BOLAFOR, OK.)	
05 atv		OS STATE	07 ZIP CODE	14 011	15 STATE	16 ZIP COOE
DAYEARS OF OPERATION	09 NAME OF OWNER	OURING THES	PERIOD			
de tendo de extract						
OI NAME		1	DZ O+8 NUMBER	10 NAME		11 D+8 NUMBER
NA		j		I NA		
03 STREET ADDRESS (P.O. So.	( NO 1, MC)		04 SIC COO€	12 STREET ADDRESS P.O Box AFD C. acc.)		13 SIC COO€
OS CITY		OS STATE	07 ZP COO€	14 CITY	15 STATE	16 ZIP CODE
06 YEARS OF OPERATION	09 HAME OF OWNER	DURING THES	PERIOD		ئبــــــــــــــــــــــــــــــــــــ	<u> </u>
OI NAME	<u> </u>		02 0+8 NUMBER	NA		11 D+B NUMBER
NA			104 SIC COO€			1.2 000000
03 STREET ADDRESS (M.O. &	e RPD F, each			12 STREET ADDRESS (P.O. doc, NFO 4, arc.)		13 SIC COOE
OS CITY	· · · · · · · · · · · · · · · · · · ·	OG STATE	07 2P COOE	14 017	15 STATE	16 ZP CODE
06 YEARS OF OPERATION	09 NAME OF OWNER	DURING THES	PERIOD			<del></del>
IV. SOURCES OF INFO	RMATION (CN 1010A	c whereast or	g., state that, somer analysis,	PROOFEL!		
ELE /FIT						
ELE/FIT	Files, 1	Regio	n T.			
		•				
			•			

<b>≎EPA</b>	P		ZARDOUS WASTE SITE ECTION REPORT	L IDENTIF	SITE NUMBER
VLIA	PART		TRANSPORTER INFORMATION	(IL D	AB0606727
IL ON-SITE GENERATOR		<del></del>		<del></del>	
OI NAME		02 0+8 NUMBER			
NA			_		
03 STREET ADORESS (P.O. Box, NFD P, enc.)		04 SIC COO€			
os ativ	06 STATE	07 ZP COOE			•
ML OFF-SITE GENERATOR(S)	<u></u>			· · · · · · · · · · · · · · · · · · ·	
OI NAME NA		02 D+B NUMBER	OI NAME NA		02 D+8 NUMBER
03 STREET ADDRESS (P.O. dur. APD P. onc.)		04 SIC COO€	03 STREET ADDRESS (P.O. Soc. NFD F, oil)		04 SIC CODE
os any	OS STATE	07 ZP CO0€	os crry	OS STATE	07 ZIP CODE
NA	1	02 D+8 NUMBER	OI NAME NA		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, NºO 4, etc.)		04 SIC COOE	03 STREET ADDRESS (P.Q. Box, RFD #, onc.)		04 S/C COOE
05 CITY	06 STATE	07 ZP COO€	05 CTY	06 STATE	07 ZIP COO€
IV. TRANSPORTER(S)	اـــــــــــــــــــــــــــــــــــــ				<u> </u>
OI NAME NA		02 D+8 NUMBER	OI NAME NA		02 O+B NUMBER
03 STREET ADDRESS (F.O. Buc, NYO F, old.)		04 SIC COOE	03 STREET ADDRESS (P.O. Box, NYD 4, onc.)		04 SIC COO€
OS CITY	06 STATE	07 20° CCOC€	OS CITY	OG STATE	07 ZIP COOE
OI NAME		02 D+6 NUMBER	OI NUME NA	****	02 D+8 NUMBER
03 STREET ADDRESS (F.O. But, NYD F, old.)		04 SIC COO€	03 STREET ADORESS (P.O. dos, MO P. or.)		04 SIC CODE
os cary	OS STATE	07 ZP COOE	os atr	06 STATE	07 ZEP COOE
V. SOURCES OF INFORMATION (CO. SOURCES	t whereas, a	A., state Bas, sample analys	k neatl		
E!E/FIT Sik II E!E/FIT Files,	nspec Regi	tion, 198 on I.	39.		
EPAFORM 2070-13 (7-61)					

<b>\$EPA</b>	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		OI STATE OF STE MASER  IL DABOGOG727
IL PAST RESPONSE ACTIVITIES			
OT DIA WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION  N A			
01 D B. TEMPORARY WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY	
04 DESCRIPTION  NA	,		
01 [] C. PERMANENT WATER SUPPLY PROVI 04 DESCRIPTION	DED 02 DATE	03 AGENCY	
NA			
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
NA			
01 D E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION  NA	02 DATE	03 AGENCY	
01 D F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
01 D.G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
O1 D H. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
O1 D L IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
01 D J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
01 D K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY	
O4 DESCRIPTION  NA	·		
01 D.L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
NA			
01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
NA			
01 (1) N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 ASBICY	
NA			1.
01 D O. EMERGENCY DIXING/SURFACE WATE	R DIVERSION 02 DATE	03 AGENCY	
04 DESCRIPTION  NA			
01 D.P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	<u>k</u>
NA			Ž.
01 (2 Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY	
ΛιΑ			

<b>≎EPA</b>	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES	LIDENTIFICATION OI STATE OF SITE MARBER IL DABOLOG727
I PAST RESPONSE ACTIVITIES		
01 () R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 S. CAPPING/COVERING 04 DESCRIPTION  A [/]	02 DATE	03 AGENCY
01 D T. BULK TANKAGE REPAIRED 04 DESCRIPTION  A./	OS DATE	03 AGENCY
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION  A/A	O2 DATE	03 AGENCY
01 () V. BOTTOM SEALED 04 DESCRIPTION  A/A	O2 DATE	
01 D. W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D.X. FIRE CONTROL 04 DESCRIPTION  NA	02 DATE	03 AGENCY
01 D.Y. LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	03 AGENCY
01 D.Z. AREA EVACUATED : 04 DESCRIPTION	02 DATE	03 AGENCY
01 () 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION  \[ \sum_{A} \rightarrow   \rightarrow  \rightarrow  \rightarrow   \rightarrow  \rightarrow  \rightarrow   \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow   \rightarrow		03 AGENCY
01 D 2. POPULATION RELOCATED 04 DESCRIPTION  NA	O2 DATE	03 AGENCY
01 D 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION NONE KNOWN.	02 DATE	03 AGENCY

E:E/FIT Files, Region II.



#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 STE NUMBER

TL DABOGO6727

IL ENFORCEMENT INFORMATION

OI PAST REGULATORY/ENFORCEMENT ACTION () YES ( ) NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REQULATORY/ENFORCEMENT ACTION

None known.

IIL SOURCES OF INFORMATION (CHI Specific relativicas, 8 g., state Bas, sangui analysis, reporter

E:E/FIT Site Inspection, 1989. E:E/FIT Files, Region V. APPENDIX C

FIT SITE PHOTOGRAPHS

SITE NAME: CITY DUMP

PAGE | OF 16

U.S. EPA ID: ILD980606727

TDD: F05-8749-119

PAN: FILOGIOSB



DATE: > 3/14/89 TIME: > 915 DIRECTION OF PHOTOGRAPH: > SW; NW PHOTOGRAPHED BY: > Karen Spangler

WEATHER CONDITIONS: > Overcast, v 35°F SAMPLE ID (if applicable): > NA

DESCRIPTION: > View From pitcher's mound of ball Field looking southwest

And northwest.

TILLE INCLUDION IN DUG SHEE	FIEL	D PHO	TOGRAPHY	LOG	SHEET
-----------------------------	------	-------	----------	-----	-------

SITE NAME: CITY DUMP

PAGE Z OF 16

U.S. EPA ID: ILD 980606727

TDD: F05-8709-119

PAN: FILO 61058



DATE: > 3/14/89 TIME: >915 DIRECTION OF PHOTOGRAPH: >N; NE PHOTOGRAPHED BY: > Karen Spangler

WEATHER CONDITIONS: > Overcast, ~35% SAMPLE ID (if applicable): > NA

DESCRIPTION: > View From pitcher's mound of hall Field looking north and

northeast.

SITE NAME: CITY DUMP

PAGE 3 OF 16

U.S. EPA ID: PLD980606727 TDD: F05-8709-119

PAN: FIL 06105B

DATE: >3/H /89

TIME: > 935

DIRECTION OF PHOTOGRAPH: WE

WEATHER

CONDITIONS: > Querrast, ~35°F

PHOTOGRAPHED BY: >KalenSpanglec

SAMPLE ID

(if applicable): > NA

DESCRIPTION: > Drainage

> area located on north

> side of site, leads

> into quarry.

>

DATE: >3/4/89

TIME: > 920

DIRECTION OF PHOTOGRAPH: > Northeast

VEATHER
CONDITIONS:
> Overcast

> ~35°F

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > NA



DESCRIPTION: > View From north edge of site down

> into the quarry area.

SITE NAME: CITY DUMP

PAGE 4 OF 16

U.S. EPA ID: ILD480606727 TDD: F05-8709-119

PAN: FILD 6105B

DATE: >3/14/89

TIME: > 915

DIRECTION OF PHOTOGRAPH: > Northeast

veather conditions: > Overcast

>~35°F

PHOTOGRAPHED BY: > Karen Spansler

SAMPLE ID
(if applicable):
> NA



DATE: >3/14/89

TIME: >915

DIRECTION OF PHOTOGRAPH:
> Southeast

veather conditions: > Overcast

> ~ 35°F

PHOTOGRAPHED BY: > Karen Spangler

SAMPLE ID (if applicable): > NA



DESCRIPTION: > View From pitcher's mound of baufield > to the southeast, cemetary in background.

SITE NAME:

CITYDump

PAGE 5 OF 16

U.S. EPA ID: ILD980606727 TDD: F05-8709-119

PAN: FILOGIOSB

DATE: > 3/14/89

TIME: > 920

DIRECTION OF PHOTOGRAPH:

> Northwest

veather conditions: > Overcost

> ~ 35°F

PHOTOGRAPHED BY: > Karen Spanger

SAMPLE ID (if applicable): > ⋈△



DBSCRIPTION: > View From the north edge of site into the > quarry entrance; garbage on slope in background.

SITE NAME:

CITY DUMP

PAGE 6 OF 16

U.S. EPA ID: ILD980606727 TDD: F05-8709-119

PAN: FILOGIOSB

DATE: > 3/15/89

TIME: > 1/20

DIRECTION OF PHOTOGRAPH: > West

weather conditions: > Overcast

> ~25°F

PHOTOGRAPHED BY: > Karen Spanger

SAMPLE ID (if applicable):



DESCRIPTION: > Soil Sample 51.

> Perspective view.

DATE: >3/15/89

TIME: >1120

DIRECTION OF PHOTOGRAPH: > \hest

VEATHER
CONDITIONS:
> Wercast

> ~25°F

PHOTOGRAPHED BY: Haren Spangler

SAMPLE ID (if applicable):



DESCRIPTION: > Soil Sample St.

> Close-up view. Collected From the east side of the bullpark, at adepth of approximately 4 Feet.

SITE NAME: CITY DUMP

PAGE 7 OF 16

U.S. EPA ID: ILD 980606727 TDD: F05-8709-119

PAN: FILOGIOSB

DATE: >3/15/89

TIME: > 1045

DIRECTION OF PHOTOGRAPH: > Southwest

veather conditions: > Overcast

> ~25°F

PHOTOGRAPHED BY: > Karen Spander

SAMPLE ID (if applicable): > ≲∠



DESCRIPTION: > Soil Sample 52.

> Perspective view.

DATE: >3/15/89

TIME: > 1045

DIRECTION OF PHOTOGRAPH: > Southwest

veather conditions: > Overcast

> ~259

PHOTOGRAPHED BY: Haven Spansler

SAMPLE ID (if applicable): > \SZ



DESCRIPTION: > Soil Sample 52.

> Close-up view. Collected From Slope on the southeast corner of the site at a depth of approximately 3 Feet.

SITE NAME: CITY Dump

PAGE 8 OF 16

U.S. EPA ID: ILD980606727 TDD: F05-8709-119

PAN: FILOGIOSB

DATE: > 3/15/89

TIME: > 1215

DIRECTION OF PHOTOGRAPH: > North

WEATHER
CONDITIONS:
> Overcast

> ~25°F

PHOTOGRAPHED BY: > Karen Spanger

SAMPLE ID (if applicable): > 53

Particular American Company of the C

DESCRIPTION: > Soil Sample 53.

> Perspective view.

DATE: >3/15/89

TIME: > 1215

DIRECTION OF PHOTOGRAPH:

veather conditions: > Overcast

> ~25°F

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > 53



DESCRIPTION: > Soil Sample 53.

> Close-up view. Collected at the north edge of the site at a depth of approximately 1.5 feet.

SITE NAME: CITY DUMP

PAGE 10 OF 6

U.S. EPA ID: JLD980606727 TDD: F05-8709-119

PAN: FILOGIOSIS

DATE: > 3/15/89

TIME: > 1225

DIRECTION OF PHOTOGRAPH: > Northeast

WEATHER
CONDITIONS:
> Overcast

> ~250F

PHOTOGRAPHED BY: > Kiren Spangler

SAMPLE ID (if applicable): > 55



DESCRIPTION: > Soil Sample 55.

> Perspective view.

DATE: >3/15/89

TIME: > 1225

DIRECTION OF PHOTOGRAPH: > Northeast

veather conditions: > Overcast

>~254

PHOTOGRAPHED BY: > Karen Spangler

SAMPLE ID (if applicable): > 55



DESCRIPTION: > Soil Sample 55.

> Close-up view. Collected From a sink hole located near centerniers. Collected at a depth of approximately 6 inches.

SITE NAME: CITY DUMP

PAGE 9 OF 16

U.S. EPA ID: IL > 180606727 TDD: F05-8709-119

PAN: FILOGIOSIS

DATE: >3/15/89

TIME: > 1235

DIRECTION OF PHOTOGRAPH:

> North

weather conditions: > Overcast

> ~25°F

PHOTOGRAPHED BY: > taren Spanger

SAMPLE ID (if applicable): > <4

DESCRIPTION: > Soil Sample S4.

> Perspective view.

DATE: >3/15/89

TIME: >1235

DIRECTION OF PHOTOGRAPH: > North

WEATHER
CONDITIONS:
> Overcost

> ~25°F

PHOTOGRAPHED BY: Karen Spanger

SAMPLE ID (if applicable): > 54



DESCRIPTION: > Soil Sample St.

>Close-up view. Collected From a sink hole on the north side of the site. The hole was approximately 4 Feet deep.



SITE NAME:

City Dump

PAGE 12 OF 16

U.S. EPA ID: ILD980606727 TDD: F05-8709-119

PAN:FILOGIOSB

DATE: >3/14/89

TIME: > 1630

DIRECTION OF PHOTOGRAPH: > Northeast

weather conditions: > Overcast

> ~ 3505

PHOTOGRAPHED BY: > Karen Spanger

SAMPLE ID (if applicable): > MW|



DESCRIPTION: > Monitoring Well Sample MW1.

> Perspective view.

DATE: >3/14/89

TIME: >1630

DIRECTION OF PHOTOGRAPH: > Northeast

WEATHER
CONDITIONS:
> DVECCEST

>~35°F

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > \( \mathcal{N} \mathcal{N} \)



DESCRIPTION: > Monitoring Will Sample MW1.

> Close-up view.

SITE NAME: CITY DUMP

PAGE | OF 10

U.S. EPA ID: ILD 980606727 TDD: FO5-8709-119

PAN: FILOGIOSB

DATE: >3/15/89

TIME: > 1300

DIRECTION OF PHOTOGRAPH: > North

weather conditions: > Uvercast

> ~25°F

PHOTOGRAPHED BY: Haren Spangler

SAMPLE ID (if applicable): > ろし



DESCRIPTION: > Soil Sample 56.

> Perspective view.

DATE: >3/15/89

TIME: > 1300

DIRECTION OF PHOTOGRAPH:

veather conditions: > Overcust

>~259

PHOTOGRAPHED BY: > Karen Spanser

SAMPLE ID (if applicable): > 56



DESCRIPTION: > Soil Sample 56.

> Close-up view. Background soil sample collected From wooded area located south of site. Collected at ~ binch depth.

SITE NAME: CITY DUMP

PAGE 13 OF 16

U.S. EPA ID: ILD980666727 TDD: F05-8709-119

PAN: FILOGIOSB

DATE: >3/14/89

TIME: >1430

DIRECTION OF PHOTOGRAPH: > Northeast

weather conditions: > Overcast

> ~35°F

PHOTOGRAPHED BY: > Karen Spanger

SAMPLE ID
(if applicable):
> MWZ



DESCRIPTION: > Monitoring Well Sample MWZ.

> Perspective view.

DATE: > 3/14/89

TIME: >1430

DIRECTION OF PHOTOGRAPH: > Northeast

veather conditions: > Overcast

> ~359

PHOTOGRAPHED BY: > Haven Spangler

SAMPLE ID (if applicable): > MWZ



DESCRIPTION: > Michidoring Well Sample MWZ.

> Close-up view.

FIELD PHOTOGRAPHY LOG SHEET PAGE 14 OF 16 SITE NAME: CITY DUMP PAN: FILOGIOSB U.S. EPA ID: ILD980606727 TDD: F05-8709-119 DATE: >3/15/89 TIME: > 1000 DIRECTION OF PHOTOGRAPH: > West WEATHER CONDITIONS: > Ciercast > ~2505 PHOTOGRAPHED BY: Haren Spanger SAMPLE ID (if applicable): > BWI DESCRIPTION: > Kesidential Well Simple view. > terspective DATE: >3/15/89 TIME: >1000 DIRECTION OF PHOTOGRAPH: > West WEATHER CONDITIONS: > Overcast > ~25% PHOTOGRAPHED BY: >Karen Spangler SAMPLE ID (if applicable): > RWI DESCRIPTION: > Residential Well Sample RWI.

> Close-up view.

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: CITY DUMP PAGE 15 OF 16 U.S. EPA ID: ILD980606727 TDD: F05-8709-119 PAN: FILOGIOSIS DATE: > 3/15/89 TIME: > 1010 DIRECTION OF PHOTOGRAPH: > East WEATHER CONDITIONS: > Overcast >~254 PHOTOGRAPHED BY: > Karen Spanger SAMPLE ID (if applicable): > RWZ DE: DATE: >3/15/89 TIME: > 1010 DIRECTION OF PHOTOGRAPH: > East **VEATHER** CONDITIONS: > Overcast > ~25°F PHOTOGRAPHED BY: \*Karen Spander SAMPLE ID (if applicable): > RWZ DESCRIPTION: > Residential Well Sample KWZ. > Close-up view.

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: CITY DUMP PAGE 16 OF 16 U.S. EPA ID: ILD480606727 TDD: F05-8709-119 PAN: FILOGIOSB DATE: >3/15/89 TIME: > 1030 DIRECTION OF PHOTOGRAPH: > Southwest WEATHER CONDITIONS: > Overcast > ~259 PHOTOGRAPHED BY: > Karen Spansle SAMPLE ID (if applicable): > RW3 DESCRIPTION: > Residential Well Sample RW3. > Perspective view. DATE: >3/15/89 TIME: > 1030 DIRECTION OF PHOTOGRAPH: > North WEATHER CONDITIONS: > Wercast > ~25°F PHOTOGRAPHED BY: >Karen Spunge SAMPLE ID (if applicable): > RW3 DESCRIPTION: > } > Close-up view.

#### APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

#### ADDENDUM A

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

# Contract Laboratory Program Target Compound List Quantitation Limits

			SOIL SEDI <b>HENT</b>
COMPOUND	CAS #	VATER	SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10 08/78
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	Š
1,1-dichloroethene	75-35-4		5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)		5 5 5	5 5 5 5
Chloroform	67-66-3	5	Š
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10 -
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachlorice	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87 <b>-</b> 5		
cis-1,3-dichloropropene	10061-01-5	5 5 5	5 5 5 5 5 5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5 5 5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Hethyl-2-pentanoae	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	
1,1,2,2-tetrachloroethane	79-34-5	5 5	5 5 5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	. 5	5 5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SEDIMENT
COHPOUND	CAS #	VATER	SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Bexachloroethane	67-72-1	10	330
Ni trobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
<del>-</del>	88-75-5	10	330
2-Nitrophenol 2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethcxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
•	120-83-2	10	330
1,2,4-Trichlorobenzene	91-20-3	10	
Naphthalene			330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Rexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SLUDGE
COMPOUND	CAS #	VATER	SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Rexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330-
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

			SOIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16 .
Endosulfan sulfate	1031-07-8	0.10	16
4.4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A
Contract Laboratory Program
Target Analyte List
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL Water	SEDIMENT SLUDGE
CONTOUND	TROODDORD	H111 D41	350505
Aluminum .	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20 -
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Hercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

#### ADDENDUM B

### CENTRAL REGIONAL LABORATORY DETECTION LIMITS

TABLE B
CENTRAL REGIONAL LABORATORY
VOLATILE DETECTION LIMITS

PARAHETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5 dg/L
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-dichloroethane	75-34-3	1.5
1,2-dichloroethane	107-06-2	1.5
1,1-dichloroethene	75-35-4	1.5
Total-1,2-dichloroethene	540-59-0	
1,2-dichloropropane	78-87-5	1.5
cis-1,3-dichlopropropene	10061-01-5	1.5
trans-1,3-dichloropropene	10061-01-5	2
Ethyl benzene	100-41-4	1
	75-09-2	1.5
Methylene chloride*		1
1,1,2,2-tetrachloroethane Tetrachloroethene	79-34-5	1.5
	127-18-4	1.5
Toluene*	108-88-3	1.5
1,1,1-trichloroethane	71-55-6	1.5
1,1,2-trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone*	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Hethyl-2-Pentanone	108-10-1	. (3)
2-Hexanone	519-78-6	(50)
Styrene	100-42-5	1
m-xylene	108-38-3	2
o-xylene**	95-47-6	
p-xylene**	106-42-3	2.5**
Total Xylene	1330-02-7	

<sup>\*</sup> Common Laboratory Solvents.

Blank Limit is 5X Method Detection Limit.

<sup>( )</sup> Values in parentheses are estimates.

Actual values are being determined at this time.

<sup>\*\*</sup> The o-xylene and p-xylene are reported as a total of the two.

TABLE B (cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
Aniline	62-53-3	1.5 ug/L	3 ug/L
Bis(2-chloroethyl)ether	111-44-4	1.5	3
Phenol	108-95-2	2	4
2-Chlorophenol .	95-57-8	2	4
1,3-Dichlorobenzene	541-73-1	2	4
l,4-Dichlorobenzene	106-46-7	2	4
,2-Dichlorobenzene	95-50-1	2.5	5
Benzyl alcohol	100-51-6	2	4
Bis(2-chloroisopropyl) ether	39638-32-9	2.5	5
2-Methylphenol	95-48-7	1	2
lexachloroethane	67-72-1	2	4
I-nitrosodipropyla∎ine	621-64-7	1.5	3
litrobenzene	98-95-3	2.5	5
-Methylphenol	106-44-5	1	2 -
Sophorone	78-59-1	2.5	5
2-Nitrophenol	88-75-5	2	4
,4-Dimethylphenol	105-67-9	2	4
is(2-chloroethoxy)methane	111-91-1	2.5	5
,4-Dichlorophenol	120-83-2	2	4
,2,4-Trichlorobenzene	120-82-1	2	4
laphthalene	91-20-3	2	4
-Chloroaniline	106-47-8	2	4
lexachlorobutadiene	87-68-3	2.5	5
enzoic acid	65-85-0	(30)	(60)
-Methylnapthalene	91-57-6	2	4
-Chloro-3-methylphenol	59-50-7	1.5	3
lexachlorocyclopentadiene	77-47-4	2	4
,4,6-Trichlorophenol	88-06-2	1.5	3
,4,5-Trichlorophenol	95-95-4	1.5	
-Chloronapthalene	91-58-7	1.5	3 3 3 3
cenapthylene	208-96-8	1.5	3
imethyl phthalate	131-11-3	1.5	3
,6-Dinitrotoluene	606-20-2	1	2
cenaphthene	83-32-9	1.5	<u>.</u>
-Nitroaniline	99-09-2	2.5	3 5
ibenzofuran	132-64-9	1	2
,4-Dinitrophenol	51-28-5	(15)	(30)
,4-Dinitrotoluene	121-14-2	1	2

TABLE B (Cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

	_	DETECTION	BLANK (a)
PARAMETER	CAS #	LIHIT	LIHIT
Fluorene	86-73-7	1 ug/L	2 ug/L
4-Nitrophenol	100-02-7	1.5	3
4-Chlorophenyl phenyl ether	7005-72-3	1	2
Diethylphthalate	84-66-2	ī	2
4,6-dinitro-2-methylphenol	534-52-1	(15)	(30)
1,2-Diphenylhydrazine	122-66-7	1	2
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	3
4-Nitroaniline	100-01-6	3	6
4-Bromophenyl-phenylether	101-55-3	1.5	3
Hexachlorobenzene	118-74-1	1.5	3 3
Pentachlorophenol	87-86-5	2	4
Phenanthrene	85-01-8	1	2
Anthracene	120-12-7	2.5	5
Di-n-butylphthalate	84-74-2	2	- 4
Fluoranthene	206-44-0	1.5	3
Pyrene	129-00-0	1.5	3 3
Butylbenzylphthalate	85-68-7	3.5	7
Chrysene **	218-01-9		
Benzo(a)anthracene **	56-55-3	1.5	3
bis(2-Ethylhexyl)phthalate	117-81-7	1	3 2
Di-n-octyl phthalate	117-84-0	1.5	3
Benzo(b)fluoranthene ***	205-99-2	_	_
Benzo(k)fluoranthene ***	207-08-9	1.5	3
Benzo(a)pyrene	50-32-8	2	4
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	4 7
Dibenzo(a,h)anthracene	53-70-3	2.5	5
Benzo(g,h,i)perylene	191-24-2	4	8
2-Nitroaniline	88-74-4	1	2

<sup>\*</sup> These two parameters are reported as a total.

<sup>\*\*</sup> These two parameters are reported as a total.

<sup>\*\*\*</sup> These two parameters are reported as a total.

<sup>(</sup>a) If the blank limit is exceeded, the sample is reextracted and rerun.

<sup>()</sup> Values in parentheses are estimates.

The actual values are being determined at this time.

TABLE B (Cont.)

CRL
PESTICIDE AND PCB DETECTION LIMITS

		DETECTION	
PARAMETER	CAS #	LIHIT	
Aldrin	309-00-2	0.005 ug/L	
alpha BHC	319-84-6	(0.010)	
beta BHC	319-85-7	(0.005)	
delta BHC	319-86-8	(0.005)	
gama BHC (Lindane)	58-89-9	0.005	
Chlordane	57-74-8	(0.020)	
4,4'DDD	72-54-8	(0.020)	
4,4'DDE	72-55-9	(0.005)	
4,4'-DDT	50-29-3	0.020	
Dieldrin	60-57-1	0.010	
Endosulfan I	959-98-8	0.010	
Endosulfan II	33213-65-9	0.010	
Endosulfan sulfate	1031-07-8	(0.10)	
Endrin	72-20-8	0.010	
Endrin aldehyde	7421-93-4	(0.030)	
Endrin ketone	53494-70-5	(0.030)	
Heptachlor	76-44-8	0.030	
Heptachlor epoxide	1024-57-3	0.005	
4,4'-Methoxychlor	72-43-5	0.020	
Toxaphene	8001-35-2	(0.25)	
PCB-1242	53469-21-9	(0.10)	
PCB-1248	12672-29-6	(0.10)	
PCB-1254	11097-69-1	(0.10)	
PCB-1260	11096-82-5	(0.10)	

<sup>( )</sup> Values in parentheses are estimates.
Actual values are being determined at this time.

TABLE B (Cont.)
CRL
INORGANIC DETECTION LIMITS

		DETECTION			
COMPOUND	PROCEDURE	LIHITS		RANGE	UNITS
Aluminum	ICP	100	80	to 1,000,000	ug/L
Antimony	Furnace	2	2	to 30	ug/L
Arsenic	Furnace	2	2	to 30	ug/L
Barium	ICP	50	6	to 20,000	ug/L
Beryllium	. ICP	5	1	to 20,000	ug/L
Boron	ICP	80	80	to 20,000	ug/L
Cadmium	ICP	<b>10</b> .	10	to 20,000	ug/L
Cadmium	Furnace	0.2	0.2	to 2	ug/L
calcium	ICP	1000	0.5	to 1,000	mg/L
Chromium	ICP	10	8	to 20,000	ug/L
Cobalt	ICP	10	6	to 20,000	ug/L
Copper	ICP	10	6	to 20,000	ug/L
iron	ICP	100	80	to 1,000,000	ug/L
Lead	Furnace	2	2	to 30	ug/L
Lead	ICP	70	70	to 20,000 -	ug/L
Lithium	ICP	10		to 20,000	ug/L
Magnesium	ICP	1000	0.1	to 200	mg/L
Maganese	ICP	10	5	to 20,000	ug/L
Hercury	Cold vapor	0.2	0.1	to 2	ug/L
Molybdenum	ICP	15	15	to 20,000	ug/L
Nickel	ICP	20		to 20,000	ug/L
Potassium	ICP	2000	5	to 1,000	mg/L
Selenium	<b>Furnace</b>	2	2	to 30	ug/L
Silver	ICP	5	6	to 10,000	ug/L
Sodium	ICP	1000		to 1,000	mg/L
Strontium	ICP	10	10	to 20,000	ug/L
Sulfide	Titration	1	<	1	mg/L
Sulfide	Color	0.05	<	1	mg/L
Thallium	Purnace	2	2	to 30	ug/L
Titanium	ICP	25	25	TO 20,000	UĞ/L
Tin	ICP	40		to 20,000	ug/L
Vanadium	ICP	10		to 20,000	ug/L
Yttrium	ICP	5		to 20,000	ug/L
Zinc	ICP	20		to 1,000,000	ug/L
Cyanide	AA	5.0	8	to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services for related CAS #.

#### ADDENDUM C

### SPECIAL ANALYTICAL SERVICES DETECTION LIMITS

Drinking Water Samples

TABLE C
SPECIAL ANALYTICAL SERVICES DRINKING VATER
VOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER	<del>-</del>
Benzene	71-43-2	1.5 ug/L	
Bromodichloromethane	75-27-4	1.5	
Bromoform	75-25-2	1.5	
Bromomethane	74-83-9	1.5	
Carbon tetrachloride	56-23-5	1.5	
Chlorobenzene	108-90-7	1.5	
Chloroethane	75-00-3	1.5	
2-Chloroethyl vinyl ether	110-75-8	1.5	
Chloroform	67-66-3	1.5	
Chloromethane	74-87-3	1.5	
Dibromochloromethane	124-48-1	1.5	
1,1-Dichloroethane	75-34-3	1.5	
1,2-Dichloroethane	107-06-2	1.5	
1,1-Dichloroethene	75-35-4	1.5	
Total-1,2-Dichloroethene	540-59-0	1.5	
1,2-Dichloropropane	78-87-5	1.5	
cis-1,3-Dichloropropene	10061-01-5	2	
trans-1,3-Dichlopropropene	10061-02-6	1	
Ethyl benzene	100-41-4	1.5	
Methylene chloride *	75-09-2	1	
1,1,2,2-Tetrachloroethane	79-34-5	1.5	
Tetrachloroethene	127-18-4	1.5	
Toluene *	108-88-3	1.5	
1,1,1-Trichloroethane	71-55-6	1.5	
1,1,2-Trichloroethane	79-00-5	1.5	
Trichloroethene	79-01-6	1.5	
Vinyl chloride	75-01-4	1.5	
Acrolein	107-02-8	25	
Acetone *	67-64-1	5	
Acrylonitrile	107-13-1	25	
Carbon disulfide	75-15-0		
2-Butanone	78-93-3	. <b>3</b> 5	
Vinyl acetate	108-05-4	5	
4-Hethyl-2-pentanone	108-10-1	1.5	
2-Hexanone	519-78-6	5	
Styrene	100-42-5	1	
Xylene (total)	1330-02-7	1.5	

<sup>\*</sup> Common laboratory solvents.

Blank limit is 5x method detection limit.

<sup>( )</sup> Values in parentheses are estimates. actual values are being determined at this time.

# TABLE C (cont.) SAS DRINKING VATER SEMIVOLATILES QUANTITATION LIHITS

		DETECTION
PARAHETER	CAS #	LIHIT
Aniline	62-53-3	1.5 ug/l
Bis(2-chloroethyl)ether	111-44-4	1.5 dg/1
Phenol	108-95-2	2
	95-57 <b>-</b> 8	2
2-Chlorophenol 1,3-Dichlorobenzene	541-73-1	2
1,4-Dichlorobenzene	106-46-7	2
1,2-Dichlorobenzene	95-50-1	2.5
Benzyl alcohol	100-51-6	2.3
Bis(2-chloroisopropyl)ether	39638-32-9	2.5
• • •	95-48-7	1
2-Methylphenol Hexachloroethane	67-72-1	2
	621-64-7	1.5
n-Nitrosodipropylamine	98-95-3	2.5
Nitrobenzene		
4-Methylphenol	106-44-5	1 2.5
Isophorone	78-59-1	
2-Nitrophenol	88-75-5	2 2
2,4-Dimethylphenol	105-67-9	
Bis(2-Chloroethoxy)methane	111-91-1	2.5
2,4-Dichlorophenol	120-83-2	2
1,2,4-Trichlorobenzene	120-82-1	2
Naphthalene	91-20-3	2
4-Chloroaniline	106-47-8	2
Hexachlorobutadiene	87-68-3	2.5
Benzoic Acid	65-85-0	20
2-Methylnapthalene	91-57-6	2
4-Chloro-3-methylphenol	59-50-7	1.5
Hexachlorocyclopentadiene	77-47-4	2
2,4,6-Trichlorophenol	88-06-2	1.5
2,4,5-Trichlorophenol	95-95-4	1.5
2-Chloronapthalene	91-58-7	1.5
Acenapthylhene	208-96-8	1.5
Dimethyl phthalate	131-11-3	1.5
2,6-Dinitrotoluene	606-20-2	1
Acenaphthene	83-32-9	1.5
3-Nitroaniline	99-09-2	2.5
Dibenzofuran	132-64-9	1
2,4-Dinitrophenol	51-28-5	(15)
2,4-Dinitrotoluene	121-14-2	1

#### TABLE C (Cont.) SAS DRINKING WATER SEHIVOLATILE QUANTITATION LIHITS

		DETECTION	
PARAMETER	CAS #	LINIT	
Fluorene	86-73-7	1 ug/L	
4-Nitrophenol	100-02-7	1.5	
4-Chlorophenyl phenyl ether	7005-72-3	1	
Diethyl phthalate	84-66-2	1	
4,6-Dinitro-2-methylphenol	534-52-1	(15)	
1,2-Diphenylhydrazine	122-66-7	1	
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	
4-Nitroaniline	100-01-6	3	
4-Bromophenyl-phenylether	101-55-3	1.5	
Hexachlorobenzene	118-74-1	1.5	
Pentachlorophenol	87-86-5	2	
Phenanthrene	85-01 <b>-8</b>	1	
Anthracene	120-12-7	2.5 -	
di-n-Butyl phthalate	84-74-2	2	
Fluoranthene	206-44-0	1.5	
Pyrene	129-00-0	1.5	
Butyl benzyl phthalate	85-68-7	3.5	
Chrysene **	218-01-9		
Benzo(A)Anthracene **	56-55-3	1.5	
bis(2-ethylhexyl)phthalate	117-81-7	1	
di-n-Octyl phthalate	117-84-0	1.5	
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	
Benzo(a)pyrene	50-32-8	2	
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	
Dibenzo(a,h)anthracene	53-70-3	2.5	
Benzo(g,h,i)perylene	191-24-2	4	
2-Nitroaniline	88-74-4	1	

These two parameters are reported as a total.

<sup>\*\*</sup> These two parameters are reported as a total.

\*\*\* These two parameters are reported as a total.

<sup>( )</sup> Values in parentheses are estimates. The actual values are being determined at this time.

### TABLE C (Cont.) SAS DRINKING VATER PESTICIDE AND PCB QUANTITATION LIMITS

		DETECTION			
PARAMETER	CAS #	LIHIT	<del></del>		
Aldrin	309-00-2	0.005 ug/L			
alpha BHC	319-84-6	0.010			
beta BHC	319-85-7	0.005			
delta BHC .	319-86-8	0.005			
gamma BHC (Lindane)	58-89 <b>-9</b>	0.005			
alpha-Chlordane	5103-71-9	0.020			
gamma-Chlordane	5103-74-2	0.020			
4,4'-DDD	72-54-8	0.020			
4,4'-DDE	72-55-9	0.005			
4,4'-DDT	50-29-3	0.020			
Dieldrin	60-57-1	0.010			
Endosulfan I	959-98-8	0.010			
Endosulfan II	33213-65-9	0.010			
Endosulfan sulfate	1031-07-8	0.10			
Endrin	72-20-8	0.010			
Endrin Aldehyde	7421-93-4	(0.030)			
Endrin Ketone	53494-70-5	0.030			
Heptachlor	76-44-8	0.030			
Heptachlor Epoxide	1024-57-3	0.005			
4,4'-Methoxychlor	72-43-5	0.020			
Toxaphene	8001-35-2	0.25			
Aroclor-1016	12674-11-2	0.10			
Aroclor-1221	11104-28-2	0.10			
Aroclor-1232	11141-16-5	0.10			
Aroclor-1242	53469-21-9	0.10			
Aroclor-1248	12672-29-6	0.10			
Aroclor-1254	11097-69-1	0.10			
Aroclor-1260	11096-82-5	0.10			

<sup>( )</sup> Values in parentheses are estimates.
Actual values are being determined at this time.

## TABLE C (Cont.) SAS DRINKING WATER INORGANIC DETECTION LIMITS

		DETECTION
PARAMETER	PROCEDURE	LIMIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5 5
Barium	ICP	50
Beryllium	. ICP	5
Cadmium	GFAA	0.5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Manganese	ICP	10
Hercury	Cold Vapor	0.2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services (RAS) for related CAS #.

#### APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

NON- RESPONSIVE	
to: Described Dates Control.	
	<b>.</b>

17. Static level 60 ft. below casing top which is above ground level. Pumping level 90 ft. when pumping at 20 gpm for 2 bours.

37	
	37
29	66
22	12/
19	140
·	•
)	
TE May 8	1913
3	
	19

QUESTED AND MAIL ORIGINAL TO STATE UMER HEALTH PROTECTION, 535 WEST I. DO NOT "TACH GEO" "ICAL/WATER PROPER W. \_L LOCATIO.

	CEO	LOCICAL	AND WA.	TER CI	IRVEYE	WELLH	FCURU		
ION- RE	SPONSIVE	LOCICAL							
	6"	letaan m	2.030	15	Λ	haa l	SECTION	PLAT	

- 1	0	Steel T & C 19.45	in	1144	BECTION PLAT	
		0.0001 1 0 0 1/14/		1533	100'N 150'E	Sw/c
			Į į	[	שא שא אש	
					· · · · · · · · · · · · · · · · · · ·	
1						

16. Size Hole below casing: 6 in

17. Static level 60 ft. below easing top which is 2 ft above ground level. Pumping level 100 ft. when pumping at 15 gpm for 2 hours.

PORMATIONS PAS	SED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil		1	1
Yellow Clay		17	18
Blue Clay		39	57
Sandy blue Cla	Υ	42	99
Blue Clay and	shale	25	124
Niagara		38	162
	·		
<del></del>			

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Horn from

DATE 12-27-82

8-21N-5E

& STATE OFFICE BUILDING, SPRINGFIELD, ICAL /WATER SURVEYS SECTION, SE SURE TO	
GEULOGICAL AND WATER SURVEYS VE	LL RECORD
NON- RESPONSIVE	
i	
:	
i	
Diem. (in.) Sind and Veight	
6 stul 19.45 0 1	ME ME SW
	(permit)
16. Size Hole below cosing:in. 17. Static level # O ft. below cosing top which above ground level. Pumping level # Q ft. w	istt.
gpm for 7 hours.  18. PORMATIONS PASSED THROUGH	THICKNESS DEPTH OF
wllow class	116 46
Levih Clay	3480
sell noch	30 110
had .	10 120
(CONTINUE ON SEPARATE SHEET IF NECESSARY)	
COUNTY No. 3.4.4.	12 26, 1971
And the second s	

A. STATE OFFICE BUILDING, STURMFIELD, CAL / MATER SURVEYS SECTION. BE SURE TO

	GŁ.	GICAL O VATER	SURVEYS	WELL	RECORU		
NON- R	ESP(	ONSIVE	C	1000	77/.		
:							
i							
	4				anao i	7	,
Dies	( <u>ja.)</u> (	Eind and Volgin	Free (FL)	1/0	LOCATION SECTION	PLAT	:
	P	3-224			NE ME S (Permit	-	
<u> </u>						•	
17. St	etic	ale below ensing: 6 level 80 ft. below cont	eg top whic	ما ط		ft.	
. ed	2044	ground level. Pumping leverbours.	1 <u>\$20_ft</u> .	when pu	mping et 3	20	
18.		PORMATIONS PASSED THROUG	M	THECK	MESS DEPT	HOF	;
1	10	lan class.		Z			
	9	sy clay			7 4	6	
	2	and Chy		1	9 6	5	
	20	-ch		12	- 14	<u> </u>	V 1
-			·	<del> </del>			
-			<del></del>	-{			
				<del> </del>			
			<del></del>				
(CONT)	TINU	e on separate sheet if i	HECESSARY)				
		`	•		3 4.19	74	
(CONT		James Fords	DA'	re <b>7.4</b>	24,19	74	
	S	James Fork	•	re 🔁 🛎	7-21N-5E	٠,	

WELL LOG #3

MITESIDE

### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

#### DIVISION OF PUBLIC WATER SUPPLIES

		Inver	ntory Sheet
pply:	MORRISON .		Date inventoried 11/6/ Sheet 15 of 23
m:	WELL #4	<u></u> . ,	SUPPLY: MORRISTIN WELL No: 4 High St
	-1 C96 M W		CHRONOLOGY: 1968-Drillad 1769 fact deep by Walling will works)
អ	Limestone 1 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	== 150; 	PUMP: Puerless, FMC. 5/N: 217258. Capacity: 1075 Inskilled by. Willett Hoffmann.
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Lemestere -12-		MOTOR: Ca. E. Mall: SKG286 XH 37A. S/N: GDJ 703146, HP.: 200, Phase: 3 Cycle: (.C., Volt: 460, Amfs. 231, RSM: 1765,
1	sinale.		Rating: 60°C, 5F:1.15 Accessories: Saufice tep, Caring Vent, funds block, oir roling, oir gage, byfars discharge,
		WELL L	og #5
Pro	DUCTION DATA:		· ·

STATIC LEVEL-FT